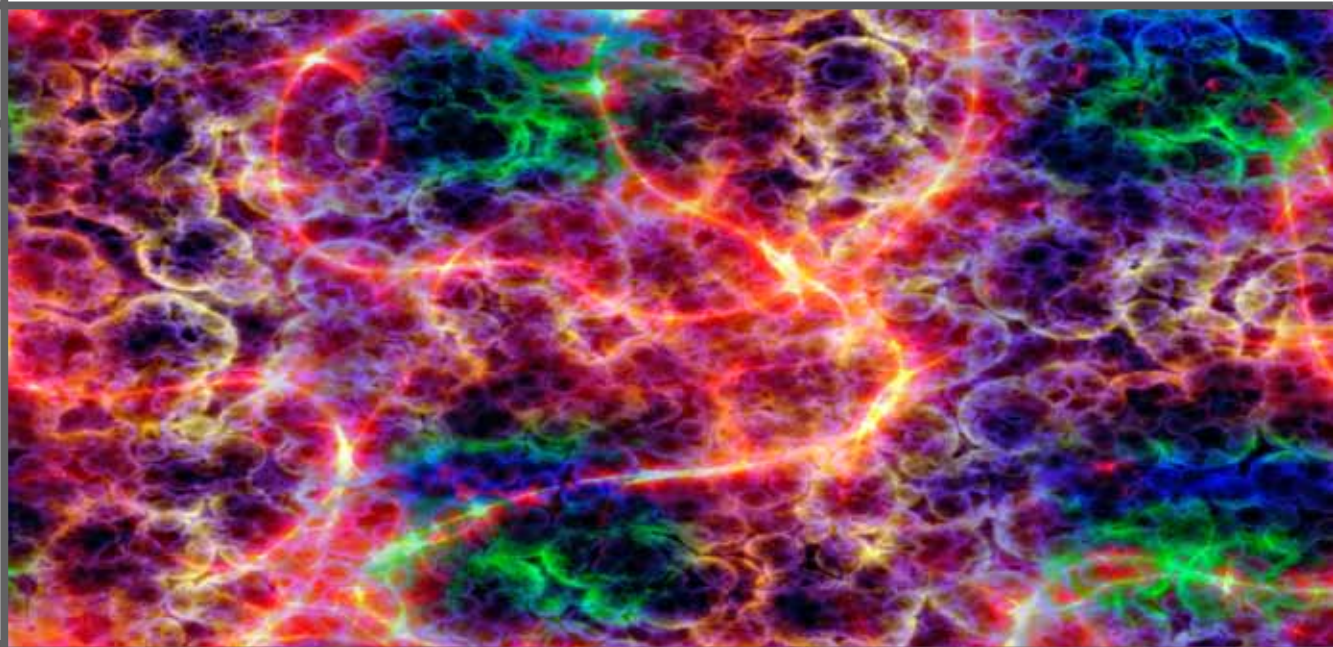


C E L L B I O L O G Y

Antibody Selection Guide

Summury and Specifications



Takara

Summary of Antibody Clones

Clones are produced by fusing the mouse myeloma cell line P3U1 with BALB/C mouse spleen cells after immunization with appropriate immunogen, unless specified otherwise. Each clone is purified from ascites fluid by ammonium sulfate precipitation and anion-exchange chromatography and suspended in 0.15 M PBS (pH 7.4) 1.0% bovine serum albumin, 0.1% sodium azide (2 mg/mL IgG or IgM). Antibodies are shipped lyophilized. Rehydrate by dissolving in distilled water to yield 2 mg Ig/mL stock solution. The lyophilized antibody is stable at 4°C if stored dry. Solutions should be stored in aliquots at –20°C. Repeated freezing and thawing should be avoided.

| Product | Clone | Cat.# | Isotype | ELISA Titer | Quantity |
|--------------------------------------|---------------|-------|-------------------------|-------------|----------|
| E-cadherin (Human) | HECD-1 | M106 | IgG ₁ | 1:10,000 | 0.1 mg |
| | SHE78-7 | M126 | IgG _{2a} | 1:10,000 | 0.1 mg |
| P-cadherin (Human) | NCC-CAD-299 | M127 | IgG ₁ | 1:4,000 | 0.1 mg |
| E-cadherin (Mouse) | ECCD-1 | M107 | IgG _{2b} (rat) | | 0.1 mg |
| | ECCD-2 | M108 | IgG _{2a} (rat) | | 0.1 mg |
| P-cadherin (Mouse) | PCD-1 | M109 | IgG _{2a} (rat) | | 0.1 mg |
| N-cadherin (Chicken) | NCD-2 | M110 | IgG _{2a} (rat) | | 0.1 mg |
| N-cadherin (Human) | Polyclonal | M142 | | | 0.4 mg |
| Fibronectin (Human) | FN12-8 | M002 | IgG ₁ | 1:10,000 | 0.4 mg |
| | FN30-8 | M010 | IgG ₁ | 1:10,000 | 0.4 mg |
| Vitronectin (Human) | VN58-1 | M017 | IgG ₁ | 1:3,000 | 0.2 mg |
| Laminin (Human) | LN82-13 | M020 | IgG ₁ | 1:10,000 | 0.1 mg |
| von Willebrand Factor (Human) | VW92-3 | M029 | IgG _{2a} | 1:10,000 | 0.2 mg |
| Heme Oxygenase-1 | GST-1 | M174 | IgG ₁ | 1:10,000 | 0.1 mg |
| | GST-3 | M175 | IgG ₁ | 1:10,000 | 0.1 mg |
| Platelet GMP-140 (Human; P-Selectin) | WGA-1 | M062 | IgG ₁ | 1:4,000 | 0.1 mg |
| | PL7-6 | M063 | IgG ₁ | 1:4,000 | 0.1 mg |
| | PC8-7 | M012 | IgG ₁ | 1:10,000 | 0.1 mg |
| Procollagen Type I C-Peptide (Human) | PC5-5 | M011 | IgG ₁ | 1:10,000 | 0.1 mg |
| | PC8-7 | M012 | IgG ₁ | 1:10,000 | 0.1 mg |
| Rat Collagen Type 2 (Rat) | 20G-12E | M193 | IgG ₁ | | |
| | Colli 2B-11 F | M192 | IgG _{2b} | 1:10,000 | 0.1 mg |
| Osteocalcin (Bovine) | OC4-30 | M041 | IgG _{2a} | 1:3,000 | 0.1 mg |
| | OCG2 | M042 | IgG ₂ | 1:4,000 | 0.1 mg |
| | OCG3 | M043 | IgG ₃ | 1:1,000 | 0.1 mg |
| | OCG4 | M044 | IgG ₁ | 1:4,000 | 0.1 mg |
| Osteocalcin (Mouse) | Polyclonal | M173 | | | 0.1 mg |
| Osteocalcin (Human) | GluOC4-5 | M171 | IgG ₁ | 1: 500 | 0.1 mg |
| Osteocalcin (Human) | 5-12H | M184 | IgG _{2b} | | 0.1 mg |
| | D-8G | M185 | IgG ₁ | | 0.1 mg |
| | 6-7H | M186 | IgG ₁ | | 0.1 mg |
| Osteocalcin (Rat) | 9-12H | M187 | IgG ₁ | | 0.1 mg |
| | R21C-01A | M188 | IgG ₁ | 1:1,000 | 0.1 mg |
| Osteonectin/SPARC | OSN4-2 | M124 | IgG ₁ | 1:4,000 | 0.1 mg |
| | ON1-1 | M125 | IgG ₁ | 1:4,000 | 0.1 mg |
| Dentin Matrix Protein 1 | Polyclonal | M176 | | | 0.1 mg |
| Calpastatin (Human) | CSL1-5 | M045 | IgG ₁ | 1:4,000 | 0.1 mg |

Summary of Antibody Clones *(continued)*

| Product | Clone | Cat.# | Isotype | ELISA titer | Quantity |
|---|------------|--------|-------------------|-------------|------------|
| Insulin (Human) | IS11-1 | M056 | IgG ₁ | 1:2,000 | 0.2 mg |
| Insulin C (Mouse) | Polyclonal | M178 | | | 0.1 mg |
| Bromodeoxyuridine | BU6-4 | M050 | IgG ₁ | 1:2,000 | 0.1 mg |
| Influenza A (Human) | C179 | M145 | IgG _{2a} | 1:2,000 | 0.1 mg |
| | F49 | M146 | IgG ₁ | 1:2,000 | 0.1 mg |
| | C111 | M147 | IgG _{2a} | 1:2,000 | 0.1 mg |
| Influenza B (Human) | 9D6 | M148 | IgG ₁ | 1:2,000 | 0.1 mg |
| Influenza A, B (Human) | Polyclonal | M149 | | 1:2,000 | 0.4 mg |
| Taq, DNA Polymerase | Monoclonal | 9002A | | | 250 units |
| Taq, DNA Polymerase | Monoclonal | 9002B | | | 1000 units |
| GAPDH | Polyclonal | M181 | | | 0.1 mg |
| Glucagon | Polyclonal | M182 | | | 0.1 mg |
| TRACP | Polyclonal | M183 | | | 0.1 mg |
| Cathepsin K | Polyclonal | M189 | | | 0.1 mg |
| Bone ALP (Rat) | Polyclonal | M190 | | | 0.1 mg |
| Oct4 (Human) | Monoclonal | M221 | IgG _{2b} | | 0.1 mg |
| Lin28 (Human) | Monoclonal | M222 | IgG _{2b} | | 0.1 mg |
| Sox2 (Human) | Monoclonal | M223 | IgG _{2b} | | 0.1 mg |
| Protein S | ProS 7B-8F | M200 | IgG ₁ | 1:1,000 | 0.1 mg |
| Bone Specific Alkaline Phosphatase (Rat) | Polyclonal | M190 | | | 0.1 mg |
| Trigger Factor | TF 19-7F | M201 | IgG ₁ | | 0.1 mg |
| Ago2 (Human) | 1B1 | M211 | IgG _{2a} | | 0.2 mg |
| Ago2 (Human) for Immunoprecipitation | 1B1 | M212 | IgG ₂ | | 0.2 mg |
| Histone H3 (Mouse) | Monoclonal | MA301B | IgG ₁ | N/A | 0.1 mg |
| Monomethyl Histone H3 (Lys4) (Mouse) | Monoclonal | MA302B | IgG ₁ | N/A | 0.1 mg |
| Dimethyl Histone H3 (Lys4) (Mouse) | Monoclonal | MA303B | IgG ₁ | N/A | 0.1 mg |
| Trimethyl Histone H3 (Lys4) (Mouse) | Monoclonal | MA304B | IgG ₁ | N/A | 0.1 mg |
| Acetyl Histone H3 (Lys9) (Mouse) | Monoclonal | MA305B | IgG ₁ | N/A | 0.1 mg |
| Monomethyl Histone H3 (Lys9) (Mouse) | Monoclonal | MA306B | IgG ₁ | N/A | 0.1 mg |
| Dimethyl Histone H3 (Lys9) (Mouse) | Monoclonal | MA307B | IgG ₁ | N/A | 0.1 mg |
| Trimethyl Histone H3 (Lys9) (Mouse) | Monoclonal | MA308B | IgG ₁ | N/A | 0.1 mg |
| Acetyl Histone H3 (Lys27) (Mouse) | Monoclonal | MA309B | IgG ₁ | N/A | 0.1 mg |
| Acetyl Histone H3 (Lys9/27) (Mouse) | Monoclonal | MA310B | IgG ₁ | N/A | 0.1 mg |
| Phospho Histone H3 (Ser10) (Mouse) | Monoclonal | MA312B | IgG ₁ | N/A | 0.1 mg |
| Phospho Histone H2B (Ser14) | Monoclonal | MA251B | IgG ₁ | N/A | 0.1 mg |
| Monomethyl Histone H3 (Lys27) | Monoclonal | MA321B | IgG ₁ | N/A | 0.1 mg |
| Trimethyl Histone H3 (Lys27) | Monoclonal | MA323B | IgG ₁ | N/A | 0.1 mg |
| Monomethyl Histone H3 (Lys36) | Monoclonal | MA331B | IgG ₁ | N/A | 0.1 mg |
| Dimethyl Histone H3 (Lys36), Mouse Monoclonal Antibody | Monoclonal | MA332B | IgG ₁ | N/A | 0.1 mg |
| Trimethyl Histone H3 (Lys36), Mouse Monoclonal Antibody | Monoclonal | MA333B | IgG ₁ | N/A | 0.2 mg |

Specifications of Antibody Clones

| Anti-Cadherin Antibody Specification Table | | | | | | | | | |
|---|-------|--|-----------------------------------|---------------------------|---|----------------------|-------------------|------------------|----------|
| Clone | Cat.# | Reactivity | No Reactivity | Application | Immunogen | Immunized Host | Subclass | Ab titer | |
| E-cadherin | | | | | | | | | |
| HECD-1 | M106 | ! GP | GF, A, B, C, D | ⊕, ⊖, +, ⊖ | ! breast tumor cell line MCF-7 | BALB/c | IgG ₁ | 1:10,000 | |
| SHE78-7 | M126 | ! | B | ⊕, ⊖, +, ⊖ | Soluble ! placenta E-cadherin | BALB/c | IgG _{2a} | 1:10,000 | |
| ECCD-1 | M107 | ! | ! GF, A, B, C, D | ⊖ | ! teratocarcinoma cell line F9 | Wister | IgG _{2b} | | |
| ECCD-2 | M108 | ! GF, A, B | GF, C, D | ⊖, + | ! teratocarcinoma and mouse liver E-cadherin fragment | Donryu | IgG _{2a} | | |
| P-cadherin | | | | | | | | | |
| NCC-CAD-299 | M127 | ! | | ⊖, +, ⊖ | ! epidermal carcinoma cell line A-431 | BALB/c | IgG ₁ | 1:4,000 | |
| PCD-1 | M109 | ! | ! C, D | ⊖, +, ⊖ | ! endoderm cell line PSA5-E | Donryu | IgG _{2a} | | |
| N-cadherin | | | | | | | | | |
| NCD-2 | M110 | ! B, C, D | ! A, B, C, D | ⊖, +, ⊖ | ! embryonic neural retina | Wister | IgG _{2a} | | |
| Polyclonal | M142 | ! GF, A, B, C, D | ! E, P-cadherin | ⊕, ⊖, + | peptide of ! N-cadherin(808-827)-KLH conjugate | | | | |
| Anti-Human Platelet GMP-140 Antibody Specification Table | | | | | | | | | |
| Clone | Cat.# | Reactivity | No Reactivity | Applications | Immunogen | Immunized host | Subclass | Ab titer | |
| WGA-1 | M062 | ! | ! B, C, D non-activated platelets | ⊕, ⊖, +, ⊖ | ! platelet | BALB/c | IgG ₁ | 1:4,000 | |
| PL7-6 | M063 | ! | ! B, C, D non-activated platelets | ⊕, ⊖, +, ⊖ | ! platelet | BALB/c | IgG ₁ | 1:4,000 | |
| Anti-Human Procollagen Type I C-Peptide Antibody Specification Table | | | | | | | | | |
| Clone | Cat.# | Reactivity | No Reactivity | Applications | Immunogen | Immunized host | Subclass | Ab titer | |
| PCS-5 | M011 | ! GF, A, B, C, D | B, C, D | ⊕, ⊖, + | ! procollagen type I C-peptide | BALB/c | IgG ₁ | 1:10,000 | |
| PC8-7 | M012 | ! GF, A, B, C, D | B, C, D | ⊕, ⊖, + | ! procollagen type I C-peptide | BALB/c | IgG ₁ | 1:10,000 | |
| Anti-Human Fibronectin Antibody Specification Table | | | | | | | | | |
| Clone | Cat.# | Reactivity | No Cross Reactivity | Application | Domain Specificity | Immunogen | Immunized host | Subclass | Ab titer |
| FN12-8 | M002 | ! GF | B, C, D | + adhesion blockade | Cell | ! plasma fibronectin | BALB/c | IgG ₁ | 1:10,000 |
| FN30-8 | M010 | ! | GF, B, C, D | ⊕, ⊖, + adhesion blockade | Cell | ! plasma fibronectin | BALB/c | IgG ₁ | 1:10,000 |
| FNH3-8 | M115 | ! B, C, D | GF, B, C, D | ⊕, ⊖, + | Type III (H12) in third Heparin | ! plasma fibronectin | BALB/c | IgG ₁ | 1:10,000 |
| Anti-Human Vitronectin Antibody Specification Table | | | | | | | | | |
| Clone | Cat.# | Reactivity | No Reactivity | Application | Immunogen | Immunized Host | Subclass | Ab titer | |
| VN58-1 | M017 | ! Vitronectin | GF antigen | + ⊕ | ! vitronectin | BALB/c | IgG ₁ | 1:3,000 | |
| Anti-Human Laminin Antibody Specification Table | | | | | | | | | |
| Clone | Cat.# | Reactivity | No Reactivity | Applications | Immunogen | Immunized Host | Subclass | Ab titer | |
| LN82-13 | M020 | γ 1 chain of N-terminal region ! antigen cross reacts with B | B antigen | + ⊕ | ! laminin | BALB/c | IgG ₁ | 1:10,000 | |

| | | | | | |
|-------------|-------------|-----------|---|---|--|
| ! = human | ! = chicken | ! = horse | ! = xenopus | + = Western blotting analysis under reducing or non-reducing conditions | ! = Immunoprecipitation |
| GF = bovine | ! = mouse | ! = sheep | ⊕ = Histology on paraffin embedded tissue | ⊖ = flow cytometry | ⊕ = Western blotting analysis under non-reducing and non-heating condition |
| A = dog | ! = rabbit | ! = goat | ⊖ = Histology on frozen tissue sections | ⊖ = Inhibition assay dependent cell-cell contact | |
| B = rat | ! = porcine | ! = goat | | | |

Specifications of Antibody Clones *(continued)*

| Anti-Osteonectin Antibody Specification Table | | | | | | | | | |
|---|-------|---|---------------------------------------|---|--|----------------|--|-------------------|----------|
| Clone | Cat.# | Reactivity | No Reactivity | Applications | Immunogen | Immunized host | Subclass | Ab titer | |
| OSN4-2 | M124 | osteonectin cross reacts with | non-activated platelet | Elisa | platelet osteonectin | BALB/c | IgG ₁ | 1:4,000 | |
| ON1-1 | M125 | osteonectin cross reacts with | non-activated platelet | Elisa | bone osteonectin | BALB/c | IgG ₁ | 1:4,000 | |
| Polyclonal Anti-Dentin Matrix Protein-1 Antibody Specification Table | | | | | | | | | |
| Clone | Cat.# | Reactivity | Applications | Immunogen | Immunized host | Subclass | Ab titer | | |
| DMP-1 | M176 | DMP-1(90-111) SGDDTFGDEDENGPPEEQWGG | | N-terminal of Dentin Matrix Protein-1(DMP-1) conjugated with KLH | Serum | IgG | 2-5 µg for immunoblotting | | |
| Monoclonal Anti-Heme Oxygenase-1 Antibody Specification Table | | | | | | | | | |
| Clone | Cat.# | Reactivity | No Reactivity | Applications | Immunogen | Immunized host | Subclass | Ab titer | |
| GTS-1 | M174 | | heme oxygenase-2 | | heme oxygenase-1 | BALB/c | IgG ₁ | 1:10,000 | |
| GTS-3 | M175 | | heme oxygenase-2 | | heme oxygenase-1 | BALB/c | IgG ₁ | 1:10,000 | |
| Anti-Bovine Osteocalcin Antibody Specification Table | | | | | | | | | |
| Clone | Cat.# | Reactivity | No Reactivity | Applications | Immunogen | Immunized host | Epitope | Subclass | Ab titer |
| OC4-30 | M041 | | with decarboxylated osteocalcin | | osteocalcin | BALB/c | includes γ-carboxylated residue at position 17 | IgG _{2a} | 1:3,000 |
| OCG2 | M042 | | | | osteocalcin | BALB/c | residue 45-49 | IgG ₁ | 1:4,000 |
| OCG3 | M043 | | | (weaker) | osteocalcin | BALB/c | residue 21-31 | IgG ₃ | 1:1,000 |
| OCG4 | M044 | | | | osteocalcin | BALB/c | residue 4-9 | IgG ₁ | 1:4,000 |
| Anti-Human Undercarboxylated Osteocalcin Antibody Specification Table | | | | | | | | | |
| Clone | Cat.# | Reactivity | No Reactivity | Applications | Immunogen | Immunized host | Subclass | Ab titer | |
| GluOC4-5 | M171 | osteocalcin w/glutamic acids residues Xreacts with GP | Gla-type osteocalcin | | peptide of osteocalcin(14-30)-KLH conjugate | BALB/c | IgG ₁ | 1:500 | |
| Polyclonal Anti-Mouse Osteocalcin Antibody Specification Table | | | | | | | | | |
| Clone | Cat.# | Reactivity | No Reactivity | Application | Immunogen | Immunized Host | | | |
| Polyclonal | M173 | Osteocalcin | No cross reactivity with Osteocalcin | | N-terminal peptide of osteocalcin-KLH conjugate | | | | |
| Anti-von Willebrand Factor Antibody Specification Table | | | | | | | | | |
| Clone | Cat.# | Reactivity | No Reactivity | Applications | Immunogen | Immunized Host | Subclass | Ab titer | |
| VW92-3 | M029 | | | | plasma von Willebrand factor | BALB/c | IgG _{2b} | 1:10,000 | |

Specifications of Antibody Clones *(continued)*

| Anti-Human Calpastatin Factor Antibody Specification Table | | | | | | | | |
|---|-------|--|-------------------|---|--|----------------|-------------------|----------------|
| Clone | Cat.# | Reacts with | Not React with | Applications | Immunogen | Immunized host | Subclass | Antibody titer |
| CSL1-5 | M045 | 👤 | | ✦ ❄ ✦ | 👤 calpastatin | BALB/c 🐭 | IgG ₁ | 1:4,000 |
| Anti-Bromodeoxyuridine Antibody Specification Table | | | | | | | | |
| Clone | Cat.# | Reactivity | No Reactivity | Applications | Immunogen | Immunized host | Subclass | Antibody titer |
| BU6-4 | M050 | bromodeoxyuridine | | ✦ ↓ | bromodeoxyuridine-BSA conjugate | BALB/c 🐭 | IgG ₁ | 1:2,000 |
| Anti-Human and Mouse Insulin Antibody Specification Table | | | | | | | | |
| Clone | Cat.# | Reactivity | No Reactivity | Applications | Immunogen | Immunized host | Subclass | Antibody titer |
| IS11-1 | M056 | 👤 🐭 | | ✦ ❄ | 👤 insulin | BALB/c 🐭 | IgG ₁ | 1:2,000 |
| Polyclonal | M178 | 🐭 amino acid sequence [SPGDLQTLALEVAR] | human insulin C | ⚙ ❄ | Intercellular amino acid peptide of mouse insulin (71-84) [SPGDLQTLALEVAR] | GP | | |
| Ago2 (Human), Monoclonal (Clone 1B1) and Insulin C (Mouse), Polyclonal Antibody Specification Table | | | | | | | | |
| Clone | Cat.# | Reactivity | No Reactivity | Applications | Immunogen | Immunized host | Subclass | Antibody titer |
| 1B1 | M211 | 👤 | | ✦ | 👤 Ago2 | BALB/c 🐭 | IgG _{2a} | |
| 1B1 | M212 | 👤 | | ● | 👤 Ago2 | BALB/c 🐭 | IgG _{2a} | |
| Anti-Human Influenza Virus Antibody Specification Table | | | | | | | | |
| Clone | Cat.# | Reactivity | No Reactivity | Applications | Immunogen | Immunized host | Subclass | Antibody titer |
| C179 | M145 | H5N3 🐔 influenza, H1N1, H2N2 | H3N2 | Influenza virus typing, neutralization of H1N1 and H2N2 | Influenza A virus A/Okuda/57 strain (H2N2) | BALB/c 🐭 | IgG _{2a} | 1:2,000 |
| F49 | M146 | 👤 influenza, H3N2, H4N6, H10N7 | H1N1, H2N2 | Influenza virus typing | Influenza A virus A2/Aichi2/68/ strain (H3N2) | BALB/c 🐭 | IgG ₁ | 1:2,000 |
| C111 | M147 | H1N1, H2N2, H3N2 | B virus | ✦ , Influenza virus typing and detection | Influenza A virus A/Okuda/57 strain (H2N2) | BALB/c 🐭 | IgG _{2a} | 1:2,000 |
| 9D6 | M148 | NP of Influenza B | Influenza A virus | ✦ , Influenza virus typing and detection | Influenza B virus B/Nagasaki/1/87 strain | BALB/c 🐭 | IgG ₁ | 1:2,000 |
| Polyclonal | M149 | H1N1, H3N2 and B/Nagasaki /1/87 | | Detection of influenza A and B virus | Vaccine mixture of influenza A/Peking/262/95(H1N1), A/Wuhan/395/95(H3N2), B/Mie/1/93 and B/Guangdong/05/94 | 🐭 | | |

| | | | | | |
|------------|-------------|-----------------|---|---|--|
| 👤 = human | 🐔 = chicken | 🐎 = horse | 🐘 = xenopus | ✦ = Western blotting analysis under reducing or non-reducing conditions | ● = Immunoprecipitation |
| 🐄 = bovine | 🐭 = mouse | 🐑 = sheep | ⚙ = Histology on paraffin embedded tissue | ↓ = flow cytometry | ✦ = Western blotting analysis under non-reducing and non-heating condition |
| 🐕 = dog | 🐰 = rabbit | GP = guinea pig | ❄ = Histology on frozen tissue sections | ⊖ = Inhibition assay dependent cell-cell contact | |
| 🐁 = rat | 🐷 = porcine | 🐐 = goat | | | |

Takara's EIA Kits

Takara EIA Kits are complete systems for measuring specific molecules present in biological samples such as plasma, serum, urine and cultured cell extracts. The majority of these kits are based on a sandwich-type enzyme immunoassay (EIA), which utilizes a pair of monoclonal antibodies, each recognizing a different epitope on the antigen molecule. Quantitative measurement of antigen binding is mediated by enzymatic color formation in 96-well microtiter plates.

Principle

One of the antibodies in the pair is supplied pre-labeled with peroxidase (POD), and the other clone is precoated onto the microtiter plate. Specimens (or standard solutions) are incubated in the coated microtiter plate wells, and the antigen is captured onto the plate. After washing the plate, the labeled antibody is added to the wells and another incubation step is performed, tagging the bound antigen with POD-labeled antibody.

Reaction between the plate-bound POD and chromogenic substrate (H_2O_2 , and TMBZ) generates production of colored reaction product. The quantity of reaction product can be measured by a plate reader and is proportional to the amount of antigen present in the specimens or standards.

Assay Duration

The incubation and detection steps on pre-coated microtiter plates require approximately 3 hours.

Total Assay Capacity

96 assays

Assay Capacity for Test Sample

If all assays (including standards) are run in duplicate, 48 reactions are possible.

Test Sample Type

These assays can generally be conducted on human serum, plasma, or urine; culture supernatants; or cell extracts. Recommended sample types may vary by kit.

Specimen Volume Required

If each test sample is run in duplicate, approximately 210 μ L (i.e., 100 μ L per assay plus 10 μ L for each sample transfer) is required. One-step sandwich EIAs require 50 μ L.

Standard Curves

Since conditions may vary from assay to assay, a standard curve must be established for every run. Refer to user manual for more information if culture supernatants are to be measured.

Storage

Store at 2 to 8°C

Summary of Takara EIA Kits

| Product | Cat.# | Assay range | Sensitivity |
|--------------------------------------|-------|------------------------------|-------------------------|
| Allergy & Immunology | | | |
| IgE (Rat) | MK135 | 0.125 - 8.0 ng/ml | 0.125 ng/ml |
| IgG (Human) | MK136 | 10–640 ng/mL | 10.0 ng/mL |
| IgG (Mouse) | MK137 | 5 - 320 ng/ml | 5 ng/ml |
| IgG (Rat) | MK138 | 2.5 - 160 ng/ml | 2.5 ng/ml |
| Bone & Endocrine Research | | | |
| Gla-Osteocalcin | MK111 | 0.5–16 ng/mL | 0.5 ng/mL |
| Undercarboxylated-Osteocalcin | MK118 | 0.25–8 ng/mL | 0.25 ng/mL |
| Gla-OC Competitive (Rat) | MK126 | 0.25-16 ng/mL | 30 ng/mL |
| Glu-OC Competitive (Rat) | MK146 | 0.125-8 ng/mL | 10 ng/mL |
| Gla/Glu-Osteocalcin (Rat) | MK147 | 0.25–16 ng/mL; 0.125–8 ng/mL | 0.25 ng/mL; 0.125 ng/mL |
| Gla-Osteocalcin (Human) | MK128 | 0.2–12 ng/mL | 0.2 ng/mL |
| Gla-Osteocalcin (Pig) | MK139 | 1.0 - 64.0 ng/ml | 1.0 ng/ml |
| Glu-Osteocalcin (Pig) | MK149 | 0.5 - 32.0 ng/ml | 0.5 ng/ml |
| Glu-Osteocalcin (Mouse) | MK127 | 0.5–16 ng/mL | 0.5 ng/mL |
| PIP (Procollagen type I C-Peptide) | MK101 | 10–640 ng/mL | 10 ng/mL |
| Cell Adhesion & ECM | | | |
| E-cadherin (Human) | MK117 | 84.4–2,700 ng/mL | 84.4 ng/mL |
| Fibronectin (Human) | MK115 | 25–800 ng/mL | 25 ng/mL |
| Glycocalicin (Human) | MK105 | 10–640 ng/mL | 10 ng/mL |
| Laminin (Human) | MK107 | 5–320 ng/mL | 5 ng/mL |
| RetroNectin® Assay | MK140 | 3.1–200 ng/mL | 3.1 ng/mL |
| Vitronectin (Human) | MK102 | 5–320 ng/mL | 5 ng/mL |

Summary of Takara EIA Kits *(continued)*

| Product | Cat.# | Assay range | Sensitivity |
|----------------------------|-------|-----------------|-------------|
| Cell Viability | | | |
| Heme Oxygenase-1 (Rat) | MK124 | 0.125–8.0 ng/mL | 0.125 ng/ml |
| Heme Oxygenase-1 (Mouse) | MK125 | 0.125–8.0 ng/mL | 0.125 ng/ml |
| Signal Transduction | | | |
| Albumin (Bovine) | MK131 | 2.5–160 ng/mL | 2.5 ng/mL |
| Albumin (Human) | MK118 | 2.5–160 ng/mL | 2.5 ng/mL |
| GMP-140 (Human) | MK112 | 20–640 ng/mL | 20 ng/mL |

Guidelines to Select an Osteocalcin EIA Kit

| OC Assay Kit (Cat.#) | Mammal samples suitable for each kit | |
|---|--|---|
| | Serum sample | Urine sample |
| Gla-OC EIA Kit (MK111) Two antibodies for sandwich EIA | Human, Bovine, Rabbit, Dog, Sheep, Goat | No mammal samples can be measured. ¹ |
| Glu-OC EIA Kit (MK118) Two antibodies for sandwich EIA | Human, Bovine, Rabbit, Pig, Sheep, Goat, Monkey | Human ² Applications on other species have not been tested. |
| Rat Gla-OC High Sensitive EIA Kit (MK126) Two antibodies for sandwich EIA | Rat | Rat |
| Rat Glu-OC High Sensitive EIA Kit (MK146) Two antibodies for sandwich EIA | Rat | Rat |
| Human Gla-OC High Sensitive EIA Kit (MK128) Two antibodies for sandwich EIA | Human | N/A |
| Pig Gla-Osteocalcin EIA Kit (MK139) Two antibodies for sandwich EIA | Pig | Pig |
| Pig Glu-Osteocalcin EIA Kit (MK149) Two antibodies for sandwich EIA | Pig | Pig |
| Mouse Gla-OC High Sensitive EIA Kit (MK127) Two antibodies for sandwich EIA | Mouse | N/A |

¹ Urinary osteocalcin is typically to be fragmented. Since the epitope regions of two antibodies for the EIA sandwich method in TAK MK111 kit are widely spaced, this kit is not appropriate to measure fragmented Gla-OC.

² Since the recognized epitopes of the two antibodies used in the TAK MK118 EIA Kit are neighboring, this kit is also suitable for measurement of fragmented Glu-OC in urinary samples.

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Takara Bio Europe SAS

Clontech Laboratories

www.clontech.com

orders@clontech-europe.com • tech@clontech-europe.com

Europe : +33.(0)1 3904 6880 • Austria : 0800 296 141 • Germany : 0800 182 5178 •
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