

## Rabbit Anti-Mouse IgG1 Secondary Antibody (7L454)

### Product Details

|               |              |
|---------------|--------------|
| Ig Type:      | Rabbit IgG   |
| Reactivity:   | Mouse        |
| Conjugation:  | Unconjugated |
| Clone:        | 7L454        |
| Purification: | Protein A    |

### Applications

|                    |  |
|--------------------|--|
| Verified Activity: | <p>1. ELISA of mouse immunoglobulins shows Rabbit Anti-Mouse IgG1 Secondary Antibody reacts only to mouse IgG1. No cross reactivity with mouse IgG2a, IgG2b, IgG3, IgM. The plate was coated with 0.1 µg/mL of different mouse immunoglobulins. 0.1 µg/mL of Rabbit Anti-Mouse IgG1 Secondary Antibody was used as the primary antibody. An HRP conjugated anti-Rabbit IgG as the secondary antibody.</p> <p>2. Immunohistochemical analysis of PFA-fixed paraffin-embedded human stomach carcinoma tissue sections, with Claudin18.1 primary antibody (1:200) for 1 hours at 37°C. An HRP-conjugated Rabbit Anti-Mouse IgG1 Secondary Antibody (1:1600) was used as the secondary antibody.</p> <p>3. Immunohistochemical analysis of PFA-fixed paraffin-embedded human prostate tissue sections, with KLK15 primary antibody (1:60) for 1 hours at 37°C. An HRP-conjugated Rabbit Anti-Mouse IgG1 Secondary Antibody (1:1600) was used as the secondary antibody.</p> <p>4. Anti-Carboxypeptidase A monoclonal antibody at 1:1000 dilution.</p> <ul style="list-style-type: none"><li>-Lane A: Recombinant Human Carboxypeptidase A Protein 100ng</li><li>-Secondary</li><li>-Rabbit Anti-Mouse IgG1/HRP at 1/1000 dilution.</li><li>-Developed using the ECL technique.</li><li>-Performed under reducing conditions.</li></ul> |
| Application:       | ELISA  |
| Recommended        | ELISA: 1:5000-1:10000  |

### Properties

|                      |  |
|----------------------|--|
| Stability & Storage: | Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free. |
| Shipping:            | Shipping with blue ice.  |

### Antigen Details

Immunogen: Recombinant Protein: Mouse IgG1-Fc Protein

Antigen Species: Mouse

Synonyms: VH7183;Igh-4;Ighg1

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### Research Background

As a monomeric immunoglobulin that is predominately involved in the secondary antibody response and the only isotype that can pass through the human placenta, Immunoglobulin G (IgG) is synthesized and secreted by plasma B cells, and constitutes 75% of serum immunoglobulins in humans. IgG antibodies protect the body against the pathogens by agglutination and immobilization, complement activation, toxin neutralization, as well as antibody-dependent cell-mediated cytotoxicity (ADCC). IgG tetramer contains two heavy chains (5 kDa ) and two light chains (25 kDa) linked by disulfide bonds, that is the two identical halves form the Y-like shape. IgG is digested by pepsin proteolysis into Fab fragment (antigen-binding fragment) and Fc fragment ("crystallizable" fragment). IgG1 is most abundant in serum among the four IgG subclasses (IgG1, 2, 3 and 4) and binds to Fc receptors (FcγR ) on phagocytic cells with high affinity. Fc fragment is demonstrated to mediate phagocytosis, trigger inflammation, and target Ig to particular tissues. Protein G or Protein A on the surface of certain Staphylococcal and Streptococcal strains specifically binds with the Fc region of IgGs, and has numerous applications in biotechnology as a reagent for affinity purification. Recombinant IgG Fc Region is suggested to represent a potential anti-inflammatory drug for treatment of human autoimmune diseases.

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