

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

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Mouse
Conjugation:	HRP
Clone:	7L454
Purification:	Protein A

Applications

Verified Activity:	1. ELISA of mouse immunoglobulins shows Rabbit Anti-Mouse IgG1 Secondary Antibody (HRP), Rabbit MAb reacts only to mouse IgG1. No cross reactivity with mouse IgG2a, IgG2b, IgG3, IgM, Rabbit IgG, Human IgG. The plate was coated with 0.1 µg/mL of different mouse immunoglobulins. 0.5 µg/mL of Rabbit Anti-Mouse IgG1 Secondary Antibody (HRP), Rabbit MAb was used as the secondary antibody.
	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.
	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.
	4. Anti-Carboxypeptidase A monoclonal antibody at 1:1000 dilution. -Lane A: Recombinant Human Carboxypeptidase A Protein 100ng -Secondary -Rabbit Anti-Mouse IgG1/HRP at 1/1000 dilution. -Developed using the ECL technique. -Performed under reducing conditions.
Application:	ELISA,IHC-P,WB
Recommended	WB: 0.1-1µg/mL; ELISA: 0.1-1 µg/mL; IHC-P: 0.3-2.5 µg/mL

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. Keep away from direct sunlight.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein: Mouse IgG1-Fc Protein

Antigen Species: Mouse

Synonyms: Ighg1;Igh-4;VH7183

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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