

IgG1 Recombinant Antibody | IGHG1 recombinant antibody

Rabbit Anti-Mouse IgG1 Secondary Antibody, Rabbit MAb

CATALOG # AAA259413	HOST Rabbit	REACTIVITY Mouse	APPLICATIONS ELISA
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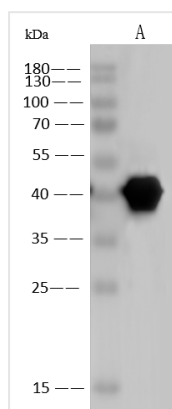
PRODUCT SYNONYMS

IgG1; Monoclonal Recombinant Antibody; Rabbit Anti-Mouse IgG1 Secondary Antibody; Rabbit MAb; Anti-IgG1 Antibody; Anti-Igh-4 Antibody; Anti-Ighg1 Antibody; Anti-VH7183 Antibody; IGHG1 recombinant antibody

PRODUCT SPECIFICATIONS

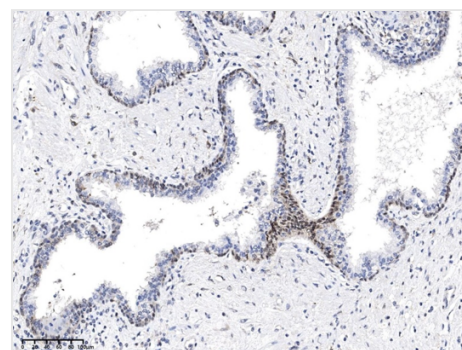
Host	Rabbit
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	020
Specificity	This antibody recognizes mouse IgG1, but almost not reacts to Mouse IgG2a, IgG2b, IgG3, IgM.
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for IGHG1 recombinant antibody	ELISA
Immunogen	Recombinant Mouse IgG1-Fc Protein (P01868-1; Val98-Lys324,C102S).
Preparation and Storage	This antibody can be stored at 2 degree C-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles. This antibody is shipped as liquid solution at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

IMAGES



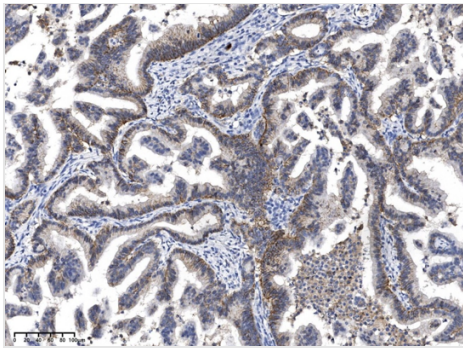
WB (Western Blot)

Anti-Carboxypeptidase A monoclonal antibody at 1:1000 dilution Lane A: Recombinant Human Carboxypeptidase A Protein 100ng Secondary Rabbit Anti-Mouse IgG1/HRP(#AAA259413-H) at 1/1000 dilution. Developed using the ECL technique. Performed under reducing conditions.



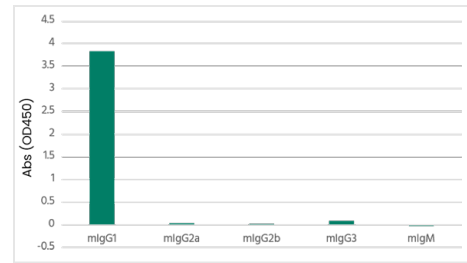
IHC (Immunohistochemistry)

Immunohistochemical analysis of PFA-fixed paraffin-embedded human prostate tissue sections, with KLK15 primary antibody (1:60) for 1 hours at 37 degree C. An HRP-conjugated Rabbit Anti-Mouse IgG1 Secondary Antibody(AAA259413-H)(1:1600) was used as the secondary antibody.



IHC (Immunohistochemistry)

Immunohistochemical analysis of PFA-fixed paraffin-embedded human stomach carcinoma tissue sections, with Claudin18.1 primary antibody (1:200) for 1 hours at 37 degree C. An HRP-conjugated Rabbit Anti-Mouse IgG1 Secondary Antibody(AAA259413-H)(1:1600) was used as the secondary antibody.



ELISA

ELISA of mouse immunoglobulins shows Rabbit Anti-Mouse IgG1 Secondary Antibody (#AAA259413) reacts only to mouse IgG1. No cross reactivity with mouse IgG2a, IgG2b, IgG3, IgM. The plate was coated with 0.1ug/mL of different mouse immunoglobulins. 0.1ug/mL of Rabbit Anti-Mouse IgG1 Secondary Antibody (#AAA259413) was used as the primary antibody. An HRP conjugated anti-Rabbit IgG as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for IGHG1 recombinant antibody

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.

References

Carosell. ED. e. al.. 1988. Cel. Immunol. 112. 262-70. Eckl. I. e. al.. 1990. Cli. Ex. Immunol. 81. 352-6. Lorriain. C. e. al.. 1995. . Bio. Chem. 270:8164-71. Gomez-Guerrer. C. e. al.. 2000. . Immunol. 164. 2092-101. Spragu. ER. e. al.. 2004. . Bio. Chem. 14. 14184-93. Anthon. RM. e. al.. 2008. Science. 320. 373-6.

NCBI AND UNIPROT INFORMATION

NCBI GI #	121040
UniProt Accession #	P01868
Molecular Weight	43,387 Da
NCBI Official Full Name	Ig gamma-1 chain C region secreted form
UniProt Protein Name	Ig gamma-1 chain C region secreted form
UniProt Gene Name	Ighg1
UniProt Synonym Gene Names	Igh-4

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/igg1-recombinant-antibody-clone-020-elisa/259413>