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HRP conjugated Rabbit Anti-Mouse IgE (Fc) mAb

Catalog No.: AS121

Basic Information

Observed MW
Refer to figures

Calculated MW

Category
Secondary antibody

Applications
ELISA

Cross-Reactivity

Conjugate
HRP

Background

Constant region of immunoglobulin heavy chains. Immunoglobulins, also known as antibodies, are membrane-bound or secreted glycoproteins produced by B lymphocytes. In the recognition phase of humoral immunity, the membrane-bound immunoglobulins serve as receptors which, upon binding of a specific antigen, trigger the clonal expansion and differentiation of B lymphocytes into immunoglobulins-secreting plasma cells. Secreted immunoglobulins mediate the effector phase of humoral immunity, which results in the elimination of bound antigens 1, 2. The antigen binding site is formed by the variable domain of one heavy chain, together with that of its associated light chain. Thus, each immunoglobulin has two antigen binding sites with remarkable affinity for a particular antigen. The variable domains are assembled by a process called V-(D)-J rearrangement and can then be subjected to somatic hypermutations which, after exposure to antigen and selection, allow affinity maturation for a particular antigen

Recommended Dilutions

ELISA	1:5000-1:10000

Immunogen Information

Gene ID **Swiss Prot**

Immunogen
Recombinant fusion protein containing a sequence corresponding to amino acids 50-388 of mouse IgE. (AAZ05128.1).

Synonyms
Ig epsilon chain C region; Immunoglobulin heavy constant epsilon

Contact

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Product Information

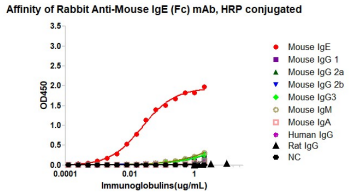
Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

Validation Data



Dose response curve of HRP conjugated Rabbit Anti-Mouse IgE mAb measured by ELISA. 1 µg/mL of various immunoglobulins were coated to 384-well plate., blank wells without protein were used as negative control (NC). The coated plate was blocked and subsequently incubated with 25 µL of HRP conjugated Rabbit Anti-Mouse IgE mAb in a 2 fold serial dilution from 2 µg/mL to 6.1*10^-5 pg/mL, incubation was performed at room temperature for 1 hour. The ELISA result demonstrated that Rabbit Anti-Mouse IgE mAb has highly specific recognition of Mouse IgE while no or minimal cross reactivity to Mouse IgG1、Mouse IgG2a、Mouse IgG2b、Mouse IgG3、Mouse IgM、Mouse IgA、Human IgG、Rat IgG.