



## Rabbit Anti-MS4A2 antibody

SL4870R

<b>Product Name:</b>	MS4A2
<b>Chinese Name:</b>	跨膜结构域4亚家族成员2抗体
<b>Alias:</b>	APY; ATOPY; Fc IgE receptor beta chain; FCER1B; FCERI; IGEL; IGHER; MS4A1; High affinity immunoglobulin epsilon receptor subunit beta; FcERI; Fc epsilon receptor I beta-chain; IgE Fc receptor subunit beta; Membrane-spanning 4-domains subfamily A member 2; Fc epsilon receptor I beta-chain; membrane-spanning 4-domains, subfamily A, member 2; Fc fragment of IgE, high affinity I, receptor for; beta polypeptide; FCERB RAT.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Mouse,Rat,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	27kDa
<b>Cellular localization:</b>	The cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from rat MS4A2:51-150/243<Extracellular>
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	The allergic response involves the binding of allergen to receptor-bound IgE followed by cell activation and the release of mediators responsible for the manifestations of

allergy. The IgE-receptor, a tetramer composed of an alpha, beta, and 2 disulfide-linked gamma chains, is found on the surface of mast cells and basophils. This gene encodes the beta subunit of the high affinity IgE receptor which is a member of the membrane-spanning 4A gene family. Members of this nascent protein family are characterized by common structural features and similar intron/exon splice boundaries and display unique expression patterns among hematopoietic cells and nonlymphoid tissues. This family member is localized to 11q12, among a cluster of membrane-spanning 4A gene family members. Alternative splicing results in multiple transcript variants encoding distinct proteins. Additional transcript variants have been described but require experimental validation. [provided by RefSeq, Mar 2012].

**Function:**

High affinity receptor that binds to the Fc region of immunoglobulins epsilon. Aggregation of FCER1 by multivalent antigens is required for the full mast cell response, including the release of preformed mediators (such as histamine) by degranulation and de novo production of lipid mediators and cytokines. Also mediates the secretion of important lymphokines. Binding of allergen to receptor-bound IgE leads to cell activation and the release of mediators responsible for the manifestations of allergy.

**Subunit:**

Tetramer of an alpha chain, a beta chain, and two disulfide linked gamma chains. Binds LILRB1. Interacts with FGR, FES/FPS and LYN.

**Subcellular Location:**

Membrane; Multi-pass membrane protein.

**Tissue Specificity:**

Found on the surface of mast cells and basophils.

**Post-translational modifications:**

Phosphorylated on tyrosine residues by LYN.

**Similarity:**

Belongs to the MS4A family.

**SWISS:**

P13386

**Gene ID:**

25316

**Database links:**

[Entrez Gene: 14126](#)Mouse

[Entrez Gene: 25316](#)Rat

[SwissProt: P20490](#)Mouse

[SwissProt: P13386](#)Rat

[Unigene: 329735](#)Mouse

[Unigene: 10922](#)Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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