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MS4A2 Rabbit pAb

Catalog # AP96807

Product Information

Application	WB, E
Primary Accession	P13386
Other Accession	P13386
Predicted	Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	26731
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from rat MS4A2
Epitope Specificity	51-150/243
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the MS4A family.
SUBUNIT	Tetramer of an alpha chain, a beta chain, and two disulfide linked gamma chains. Binds LILRB1. Interacts with FGR, FES/FPS and LYN.
Post-translational modifications	Phosphorylated on tyrosine residues by LYN.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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].

Additional Information

Gene ID	25316
Other Names	FcRB; Fce1b; Fcer1b; Fcrbeta; Ms4a1; fcERI; FCIGA; FCERB_MOUSE; Ms4a2; Fc epsilon receptor I beta-chain; IgE Fc receptor subunit beta; Membrane-spanning 4-domains subfamily A member 2; FCERB_RAT; APY; ATOPY; IGEL; IGER; IGHER; membrane spanning 4-domains A2; IgE

	responsiveness (atopic); membrane-spanning 4-domains, subfamily A, member 2 (Fc fragment of IgE, high affinity I, receptor for; beta polypeptide); membrane-spanning 4-domains, subfamily A, member 2; Fc fragment of IgE, high affinity I, receptor for; beta polypeptide
Dilution	WB=1:500-2000,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	Ms4a2
Synonyms	Fce1b, Fcer1b
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.
Cellular Location	Membrane; Multi- pass membrane protein

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