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FAIM3 Rabbit pAb

Catalog # AP97344

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	O60667
Other Accession	O60667
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43146
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FAIM3
Epitope Specificity	51-150/390
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 Ig-like (immunoglobulin-like) domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The oncogene BCL2 is a membrane protein that blocks a step in a pathway leading to apoptosis or programmed cell death. The protein encoded by this May play a role in the immune system processes. Protects cells from FAS-, TNF alpha- and FADD-induced apoptosis without increasing expression of the inhibitors of apoptosis BCL2 and BCLXL. Seems to activate an inhibitory pathway that prevents CASP8 activation following FAS stimulation, rather than blocking apoptotic signals downstream. May inhibit FAS-induced apoptosis by preventing CASP8 processing through CFLAR up-regulation.

Additional Information

Gene ID	9214
Other Names	FAIM3; FcmuR; IgM FcR; TOSO; FCMR_HUMAN; FCMR; Fas apoptotic inhibitory molecule 3 (FAIM3); Regulator of Fas-induced apoptosis Toso; Fc mu receptor; Fas apoptotic inhibitory molecule 3; Fc fragment of IgM receptor; IgM Fc receptor; Fc mu R
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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	FCMR {ECO:0000303|PubMed:25888699, ECO:0000312|HGNC:HGNC:14315}
Function	High-affinity Fc receptor for immunoglobulin M (IgM), both secreted and membrane-bound IgM (PubMed:19858324, PubMed:22675200, PubMed:36949194, PubMed:37095205). Primarily regulates IgM transport and homeostasis. In lymphoid cells, enables exocytosis of membrane- bound IgM on the plasma membrane as well as endocytosis of IgM-antigen complexes toward lysosomes for degradation. In mucosal epithelium, mediates retrotranscytosis of antigen-IgM complexes across mucosal M cells toward antigen-presenting cells in mucosal lymphoid tissues (PubMed:21908732, PubMed:28230186). Triggers costimulatory signaling and mediates most of IgM effector functions involved in B cell development and primary immune response to infection. Likely limits tonic IgM BCR signaling to self-antigens for proper negative selection of autoreactive B cells in the bone marrow and for the maintenance of regulatory B cell pool in peripheral lymphoid organs. Mediates antibody responses to T cell-dependent and T cell-independent antigens and promotes induction of an efficient neutralizing IgG response. Engages in cross-talk with antigen-receptor signaling via the non-canonical NF- kappa-B, MAP kinases and calcium signaling pathways (PubMed:19858324, PubMed:22675200, PubMed:25601920, PubMed:30840890).
Cellular Location	Cell membrane; Single-pass membrane protein. Early endosome membrane; Single-pass membrane protein. Golgi apparatus, trans- Golgi network membrane; Single-pass membrane protein. Lysosome membrane; Single-pass membrane protein. Note=Continuously recycles between cytoplasmic pool and the plasma membrane to bind as much IgM as possible
Tissue Location	Expressed by CD19-positive B cells and CD4-positive and CD8-positive T cell populations in primary and secondary lymphoid tissues (at protein level). Among B cell subsets, detected in a subset of bone marrow pro- and pre-B cells, in most follicular and memory B cells and in a small subset of germinal center B cells (at protein level). Expressed at lower levels in CD56-positive NK cells (at protein level) (PubMed:19858324, PubMed:21908732, PubMed:22675200, PubMed:30840890). Expressed in lymph nodes, lung, thymus and kidneys Very weak expression detected in spleen, liver, heart, and salivary gland.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.