

TREML2 Rabbit pAb

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Catalog # AP58055

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q5T2D2
Predicted	Rat, Pig, Dog, Human, Mouse, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35127
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TREML2
Epitope Specificity	65-150/321
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane; Single-pass type I membrane protein.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	TREML2 is expressed throughout B cell development in addition to being expressed on macrophages and neutrophils and is the only TREM molecule to be found on lymphocytes. TREML2 is expressed on B lineage cells early in development, and the highest level of expression is detected on those mature peripheral B cell subpopulations that are involved in the initial humoral immune response against bacterial pathogens. TREML2 is unique in that it lacks either the conserved transmembrane lysine residue or ITAM/ITIMs within its own cytoplasmic domain. Thus, TREML2 does not exhibit any of the features associated with classical tyrosine-based signaling. Monocytes in the bone marrow or peripheral blood do not express detectable levels of TREML2, but its expression is up-regulated in conjunction with differentiation into macrophages. TREML2 is present on neutrophils in the bone marrow as well as the periphery, and inflammatory stimuli result in a dramatic increase in the expression of TREML2 on these cells in vivo. TREML2 is a single-pass type I membrane protein, and it contains 1 Ig-like V-type (immunoglobulin-like) domain. It is a cell surface receptor that may play a role in the innate and adaptive immune response. TREML2 is located in a gene cluster on chromosome 6 with the single Ig variable (IgV) domain activating receptors TREM1 and TREM2, but it has distinct structural and functional properties.

Additional Information

Gene ID	79865
Other Names	Trem-like transcript 2 protein, TLT-2, Triggering receptor expressed on myeloid cells-like protein 2, TREML2, C6orf76, TLT2

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,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	TREML2
Synonyms	C6orf76, TLT2
Function	Cell surface receptor that may play a role in the innate and adaptive immune response. Acts as a counter-receptor for CD276 and interaction with CD276 on T-cells enhances T-cell activation.
Cellular Location	Cell membrane; Single-pass type I membrane protein
Tissue Location	Detected in cultured B-cells, T-cell leukemia and monocyte leukemia. Expressed constitutively on CD8 T-cells and induced on CD4 T-cells after activation.

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