



Rabbit Anti-TREML2 antibody

SL2737R

Product Name:	TREML2
Chinese Name:	髓系细胞触发受体样转录因子2抗体
Alias:	C6orf76; Chromosome 6 open reading frame 76; FLJ13693; MGC149715; MGC149716; TLT 2; TLT2; TREM like transcript 2; Trem like transcript 2 protein; Triggering receptor expressed on myeloid cells like 2; Triggering receptor expressed on myeloid cells like protein 2; TRML2_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	33kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human TREML2:65-150/321<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	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.
PubMed:	PubMed
Product Detail:	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.

Function:

Cell surface receptor that may play a role in the innate and adaptive immune response. Acts as a counterreceptor for CD276 and interaction with CD276 on T-cells enhances T-cell activation.

Subunit:

Interacts with CD276 and this interaction enhances T-cell activation.

Subcellular Location:

Cell membrane; Single-pass type I membrane protein.

Tissue Specificity:

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.

Similarity:

Contains 1 Ig-like V-type (immunoglobulin-like) domain.

SWISS:

Q5T2D2

Gene ID:

79865

Database links:

[Entrez Gene: 79865](#)Human

[Omim: 609715](#)Human

[SwissProt: Q5T2D2](#)Human

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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