

Product datasheet

Recombinant Human TREML2 protein ab191918

Description

Product name	Recombinant Human TREML2 protein	
Purity	> 95 % SDS-PAGE. Purity greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.	
Endotoxin level	< 1.000 Eu/μg	
Expression system	HEK 293 cells	
Accession	Q5T2D2	
Protein length	Protein fragment	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	<pre> GPSADSVYTKVRLLEGETLSVQCSYKGYKNRVEGKV WCKIRKKKCEPGFA RVWVKGPVRYLLQDDAQAKVVNITMVALKLQDSGRYW CMRNTSGILYPLMG FQLDVSPAPQSERNIPFTHLDNILKSGTVTTGQAPTSG PDAPFTTGVMVF TPGLITLPRLLASTRPASKTGYSFTATSTTSQGPRRTMG SQTVTASPSNA RDSSAGPESISTKSGDLSTRSPTTGLCLTSRLLNRLP SMPSIRHQDVYS VDDIEGRMDEPKSCDKTHTCPPCPAPELLGGPSVFLF PPKPKDTLMISRT PEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPR EEQYNSTYRVVSVL TVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPR EPQVYTLPPSRE EMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKT TPPVLDSDGSFFL YSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLS LSPGK </pre>	
Predicted molecular weight	54 kDa including tags	
Amino acids	19 to 268	
Additional sequence information	Extracellular domain fused with a FC tag at the C-terminus.	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab191918** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	HPLC SDS-PAGE
Form	Lyophilised

Preparation and Storage

Stability and Storage	Shipped at 4°C. The lyophilized protein is stable for a few weeks at room temperature. Store at -80°C. Avoid freeze / thaw cycle. pH: 7.40 Constituent: 100% PBS Lyophilized from a 0.2 µM filtered solution.
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General Info

Relevance	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. 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.
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Cellular localization	Cell membrane; Single-pass type I membrane protein.
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Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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