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TREM-2b Recombinant Protein

CATALOG NUMBER: 92-682

Specifications	
SPECIES:	Mouse
SOURCE SPECIES:	Human Cells
SEQUENCE:	Leu19-Pro168
FUSION TAG:	C-Fc tag
APPLICATIONS:	This recombinant protein can be used for biological assays. For research use only.
Properties	
PURITY:	Greater than 95% as determined by reducing SDS-PAGE.
1011111	Endotoxin level less than 0.1 ng/ug (1 IEU/ug) as determined by LAL test.
PREDICTED MOLECULAR WEIGHT:	43.7 kD
PHYSICAL STATE:	Lyophilized
BUFFER:	Lyophilized from a 0.2 um filtered solution of PBS, pH7.4. It is not recommended to reconstitute to a concentration less than 100 ug/ml. Dissolve the lyophilized protein in ddH2O.
STORAGE CONDITIONS:	Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.
Additional Info	
ALTERNATE NAMES:	Triggering Receptor Expressed on Myeloid Cells 2b, Triggering receptor expressed on myeloid cells 2, TREM-2, Triggering receptor expressed on monocytes 2, Trem2, Trem2a, Trem2b, Trem2c, TREM-2b
ACCESSION NO.:	Q99NH8

Background

Triggering receptor expressed on myeloid cells-2 (TREM-2) is a cell surface receptor primarily expressed on macrophages, osteoclasts, microglia and dendritic cells. TREM-2 is one member of the TREM family, inhibiting the releasing of inflammatory mediators, so it is an important in vivo anti-inflammatory receptor. TREM-2 consists of an 18 aa signal sequence, a 153 aa extracellular domain (ECD) with one V-type Ig-like domain, a 21 aa transmembrane (TM) domain, and a 35 aa cytoplasmic tail. A soluble form of TREM-2 (TREM-2b) created by alternate splicing diverges at aa 161. TREM-2 transduces intracellular signals through the adaptor DAP12. After binding of TREM-2 with ligand, the TREM-2/DAP12 (dead-cell-activated-receptor-associated protein)-mediated signal transduction pathway causes a series of intracellular protein tyrosine phosphorylation reactions and enzymatic reactions, which then activate the myeloid cells and participate T cell responses.

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