

Product datasheet for **TP726910**

TREM2 Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human Triggering Receptor Expressed On Myeloid 2/TREM-2 (C-6His)
Species:	Human
Expression cDNA Clone or AA Sequence:	His19-Ser174
Tag:	C-His
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
Note:	Recombinant Human Triggering Receptor Expressed On Myeloid Cells 2 is produced by our Mammalian expression system and the target gene encoding His19-Ser174 is expressed with a 6His tag at the C-terminus.
Stability:	12 months from date of despatch
Locus ID:	54209
UniProt ID:	Q9NZC2
Summary:	Triggering Receptor Expressed on Myeloid cells 2 (TREM2) is a 35 kDa type I transmembrane member of the TREM family and Ig superfamily. Mature human TREM2 consists of a 156 amino acid (aa) extracellular domain (ECD) with one V-type Ig-like domain, a 21 aa transmembrane (TM) domain, and a 35 aa cytoplasmic tail. Soluble forms of the TREM2 ECD are generated by alternative splicing or proteolytic cleavage, and the cytoplasmic domain can be liberated by gamma-Secretase mediated intramembrane cleavage. A positively charged lysine within the transmembrane segment allows association with the signal adapter protein, DAP12 and inhibition of macrophage activation. TREM2 is expressed on macrophages, immature myeloid dendritic cells, osteoclasts, microglia, and adipocytes. It promotes the differentiation and function of osteoclasts, the production of inflammatory cytokines by adipocytes, insulin resistance, and the phagocytic clearance of bacteria.



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