

Recombinant Human triggering receptor expressed on myeloid cells 1 Protein, His&Flag tagged

Cat. No. TREM1-211H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant human TREM1 protein (Q9NP99-1) (Ala 21-Asn 205) with both His, Flag tag at the C-terminus was expressed in HEK293.

Species

Human

Source

HEK293

ProteinLength

21-205aa

Description

This gene encodes a receptor belonging to the Ig superfamily that is expressed on myeloid cells. This protein amplifies neutrophil and monocyte-mediated inflammatory responses triggered by bacterial and fungal infections by stimulating release of pro-inflammatory chemokines and cytokines, as well as increased surface expression of cell activation markers. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene. Cell surface receptor that plays important roles in innate and adaptive immunity by amplifying inflammatory responses. Upon activation by various ligands such as PGLYRP1, HMGB1 or HSP70, multimerizes and forms a complex with transmembrane adapter TYROBP/DAP12. In turn, initiates a SYK-mediated cascade of tyrosine phosphorylation, activating multiple downstream mediators such as BTK, MAPK1, MAPK3 or phospholipase C-gamma. This cascade promotes the neutrophil- and macrophage-mediated release of pro-inflammatory cytokines and/or chemokines, as well as their migration and thereby amplifies inflammatory responses that are triggered by bacterial and fungal infections. By also

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promoting the amplification of inflammatory signals that are initially triggered by Toll-like receptor (TLR) and NOD-like receptor engagement, plays a major role in the pathophysiology of acute and chronic inflammatory diseases of different etiologies including septic shock and atherosclerosis.

Tag	C-His&Flag
Molecular Mass	23.5 kDa
Endotoxin	Less than 1.0 EU/μg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution	Reconstitute at 250 μg/mL in sterile water.

GENE INFORMATION

Gene Name	TREM1 triggering receptor expressed on myeloid cells 1 [Homo sapiens (human)]
Official Symbol	TREM1
Synonyms	TREM1; triggering receptor expressed on myeloid cells 1; CD354; TREM 1; triggering-receptor TREM1; triggering receptor expressed on monocytes 1; TREM-1;

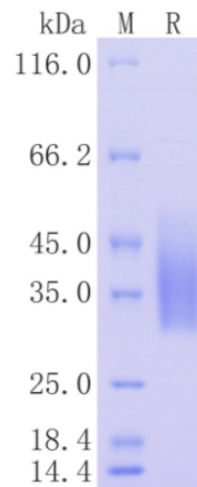
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Gene ID	54210
mRNA Refseq	NM_001242589
Protein Refseq	NP_001229518
MIM	605085
UniProt ID	Q9NP99

Protein on SDS-PAGE under reducing (R) condition.



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