

Datasheet for ABIN7317846
TREM1 Protein (His tag,Fc Tag)



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Overview

Quantity:	100 µg
Target:	TREM1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TREM1 protein is labelled with His tag,Fc Tag.

Product Details

Purpose:	Recombinant Human TREM1 Protein (His & Fc Tag)
Sequence:	Met 1-Arg 200
Characteristics:	A DNA sequence encoding the extracellular domain (Met 1-Arg 200) of human TREM1 (NP_061113.1) precursor was fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.
Purity:	> 97 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	TREM1
Alternative Name:	TREM1 (TREM1 Products)
Background:	Background: TREM1 (triggering receptor expressed on myeloid cells) is a type I transmembrane protein with a single Ig-like domain; and is selectively expressed on blood

Target Details

neutrophils and a subset of monocytes. As a member of the growing family of receptors related to NK cell receptors; TREM1 activates downstream signaling events with the help of an adapter protein called DAP12. Expression of TREM1 is up-regulated by bacterial LPS; a ligand for TLR4; as well as lipoteichoic acid. Although its natural ligand has not been identified; engagement of TREM1 with agonist mAbs triggers secretion of the proinflammatory cytokines TNF- α and IL-1 β ; as well as chemokines such as IL-8 and monocyte chemoattractant protein (MCP)-1. Intracellularly; TREM1 induces Ca²⁺ mobilization and tyrosine phosphorylation of extracellular signal-related kinase 1 (ERK1); ERK2 and phospholipase C- γ . In an animal model of LPS-induced septic shock; blockade of TREM1 signaling inhibited hyperresponsiveness and death. Thus; it has been demonstrated that TREM1 performs a critical function in immune responses involved in host defense against microbial challenges; and is suggested to be a potential therapeutic target for septic shock.

Synonym: Triggering Receptor Expressed on Myeloid Cells 1; TREM-1; Triggering Receptor Expressed on Monocytes 1; CD354; TREM1

Molecular Weight: 48.3 kDa

NCBI Accession: [NP_061113](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.