

TREM1 Human

Description:TREM1 Human Recombinant produced in E.Coli is single, a non-glycosylated, Polypeptide chain containing 180 amino acids fragment (21-200) corresponding to mature soluble extracellular domain fragment of TREM-1, having a total molecular mass of 24.76kDa and fused with a 4.5kDa amino-terminal hexahistidine tag. The TREM1 is purified by proprietary chromatographic techniques.

Catalog #:PRPS-464

For research use only.

Synonyms:Triggering receptor expressed on myeloid cells 1, Triggering receptor expressed on monocytes 1, TREM-1, TREM1.

Source:Escherichia Coli.

Physical Appearance:Sterile Filtered clear solution.

Purity:Greater than 95.0% as determined by SDS-PAGE.

Formulation:

TREM1 protein (0.25mg/ml) is supplied in 10mM Tris-HCl pH-8, 62.5mM NaCl and 50% glycerol.

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

TREM1 is a transmembrane receptor protein that is involved in monocytic activation and in the inflammatory response. TREM1 is expressed on the surface of neutrophils, mature monocytes and macrophages. TREM1 stimulates neutrophil and monocyte-mediated inflammatory responses. TREM1 also triggers the release of pro-inflammatory chemokines and cytokines, as well as increased surface expression of cell activation markers. Furthermore, TREM1 is an amplifier of inflammatory responses that are triggered by bacterial and fungal infections and is a fundamental mediator of septic shock. The expression of the soluble form of TREM1 increases during sepsis and can consequently be used as a biological marker for septic shock. TREM1 is strongly expressed in acute inflammatory lesions caused by bacteria and fungi. Increased TREM1 expression on monocytes is related to both infectious and noninfectious inflammatory processes. TREM1 is vastly expressed in adult liver, lung and spleen than in corresponding fetal tissue. TREM1 is also expressed in the lymph node, placenta, spinal cord and heart tissues. TREM1 expression is more elevated in peripheral blood leukocytes than in the bone marrow and in normal cells than malignant cells. TREM1 is expressed at low levels in the early development of the hematopoietic system and in the promonocytic stage and at high levels in mature monocytes.

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