

TREM-2 Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P72438
Synonyms:	Ig-like domain-containing protein; TREM2; Triggering receptor expressed on myeloid cells 2
Species:	Cynomolgus
Source:	HEK293
Accession:	XP_005553122.1 (H19-S174)
Gene ID:	102133279
Molecular Weight:	28-40 kDa

PROPERTIES

AA Sequence	<p>H N T T V F Q G V E G Q S L Q V S C P Y D S M K H W G R R K A W C R Q L G E K G</p> <p>P C Q R V V S T H N L W L L S F L R R R N G S T A I T D D T L G G T L T I T L R</p> <p>N L Q P H D A G F Y Q C Q S L H G S E A D T L R K V L V E V L A D P L D H R D A</p> <p>G D L W V P G E S E S F E D A H V E H S I S R S L L E G E I P F P P T S</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>TREM-2 Protein forms a receptor signaling complex with TYROBP, mediating signaling and cell activation upon ligand binding. It acts as a receptor for amyloid-beta protein 42, facilitating its uptake and degradation by microglia, resulting in microglial activation, proliferation, migration, apoptosis, and cytokine expression. Additionally, TREM-2 serves as a receptor for lipoprotein particles and apolipoproteins, enhancing their uptake in microglia. It binds phospholipids and regulates microglial proliferation, phagocytosis of apoptotic neurons, and response to oxidative stress. Furthermore, TREM-2 suppresses PI3K and NF-kappa-B signaling, promotes anti-apoptotic NF-kappa-B signaling during oxidative stress, and plays a role in microglial MTOR activation and metabolism. It is involved in age-related changes in microglial numbers and triggers immune responses in macrophages and dendritic cells. TREM-2 also mediates cytokine-induced multinucleated</p>
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giant cell formation and is implicated in osteoclast differentiation. The protein interacts with TYROBP, and this interaction is crucial for stabilizing the TREM-2 C-terminal fragment.

Caution: Product has not been fully validated for medical applications. For research use only.

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