TREML2 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P71384
Synonyms:	Trem-like transcript 2 protein; TLT-2; Triggering receptor expressed on myeloid cells-like protein 2; TREML2; TLT2
Species:	Mouse
Source:	HEK293
Accession:	Q2LA85 (H25-A270)
Gene ID:	328833
Molecular Weight:	58-62 kDa

PROPERTIES

AA Sequence	H S N E N L Y R K V W R R E G E T L S V Q C S Y K N R R N L V E A K S W C K V K K K K C D H N F T R S W V R G P S Y S L R D D A K V K V V R I T M E A L R V Q D S G R Y W C M R N T A G H F Y P L V G F Q L E V Y P A L T T E R N V P H T H L T N T P M D G F V T T G Q V H I S D P H A P F T S D V T M F T S E V T M F T S G L L T L A S G T T T P T P V T G Y S F I D T S G T V T E P E R N T E S Q P A T L S P S N A R S F S A D P V T T S T M S R H Q S S S L S T T G T C H P L T P N R S Q E T Y I P A
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.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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	Semaphorin-6A/SEMA6A serves as a cell surface receptor for PLXNA2 and plays a crucial role in cell-cell signaling, particularly in the regulation of granule cell migration during cerebellar development. It orchestrates the reorganization of the actin cytoskeleton and functions as a significant contributor to axon guidance within the developing central nervous system, exhibiting repulsive action towards migrating granular neurons. Additionally, SEMA6A is implicated in channeling sympathetic axons into sympathetic chains and controlling the temporal sequence of sympathetic target innervation. In the

context of microbial infection, SEMA6A acts as a receptor for P.sordellii toxin TcsL in the vascular system, underscoring its diverse roles in both developmental processes and response to external stimuli.

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