TMED1 Protein, Human (171a.a, HEK293, Fc)

Cat. No.:	HY-P72445
Synonyms:	IL1RL1-Binding Protein; Il1rl1l; IL1RL1LG; IL-1RL1LG; IL1RL1LGIL1RL1-binding protein; ST2L; T1/ST2 receptor binding protein; TMED1; Tp24
Species:	Human
Source:	HEK293
Accession:	Q13445 (A24-N194)
Gene ID:	11018
Molecular Weight:	55-65 kDa

PROPERTIES

AA Sequence	A G P P P I Q D G E F T F L L P A G R K Q C F Y Q S A P A N A S L E T E Y Q V I G G A G L D V D F T L E S P Q G V L L V S E S R K A D G V H T V E P T E A G D Y K L C F D N S F S T I S E K L V F F E L I F D S L Q D D E E V E G W A E A V E P E E M L D V K M E D I K E S I E T M R T R L E R S I Q M L T L L R A F E A R D R N L Q E G N L E R V N
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	The TMED1 protein potentially plays a role in vesicular protein trafficking, particularly in the early secretory pathway. It may act as a cargo receptor on the lumenal side to facilitate the incorporation of secretory cargo molecules into transport vesicles, and it is also implicated in vesicle coat formation on the cytoplasmic side. Additionally, TMED1 has been shown to have a positive influence on IL-33-mediated IL-8 and IL-6 production by interacting with the interleukin-33 receptor IL1RL1. Furthermore, it is involved in the modulation of innate immune signaling through the cGAS-STING pathway via its interaction with RNF26. TMED1 forms homodimers in the endoplasmic reticulum, endoplasmic reticulum-Golgi intermediate compartment, and cis-Golgi network. It interacts with IL1RL1 and RNF26, with the latter interaction being

	particularly important for modulating innate immune signaling through the cGAS-STING pathway.

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