CLEC1B/CLEC-2 Protein, Mouse (HEK293, Fc)

Cat. No.:	HY-P75335
Synonyms:	C-type lectin domain family 1 member B; CLEC1B; CLEC2
Species:	Mouse
Source:	HEK293
Accession:	Q9JL99-1 (M53-L229)
Gene ID:	56760
Molecular Weight:	Approximately 50-65 kDa due to the glycosylation.

PROPERTIES

AA Sequence	M S V T Q Q K Y L L A E K E N L S A T L Q Q L A K K F C Q E L I R Q S E I K T K S T F E H K C S P C A T K W R Y H G D S C Y G F F R R N L T W E E S K Q Y C T E Q N A T L V K T A S Q S T L D Y I A E R I T S V R W I G L S R Q N S K K D W M W E D S S V L R K N G I N L S G N T E E N M N C A Y L H N G K I H P A S C K E R H Y L I C E R N A G M T R V D Q L L
Biological Activity	Measured by its binding ability in a functional ELISA. When Recombinant Mouse Podoplanin is coated at 1.0 μg/mL (100 μL/well), Recombinant Mouse CLEC-2 binds with ED_{50} of 0.2387 μg/mL.
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	CLEC1B/CLEC-2 Protein is a C-type lectin-like receptor that serves as a platelet receptor for PDPN, a marker of lymphatic endothelial cells. Upon ligand activation, CLEC1B/CLEC-2 signals through the sequential activation of SRC and SYK tyrosine kinases, ultimately leading to the activation of PLCG2. It forms homodimers and interacts with RACK1 through its cytoplasmic domain, promoting CLEC1B ubiquitination and subsequent degradation via the proteasome pathway.

	Additionally, CLEC1B/CLEC-2 interacts with SYK in a dimeric form, facilitated by the SH2 domains of SYK. Furthermore, it interacts with PDPN, and this interaction is independent of CLEC1B glycosylation, resulting in the activation of CLEC1B/CLEC-2.

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