

## CLEC1B/CLEC-2 Protein, Human (HEK293, His)

Cat. No.:	HY-P75336
Synonyms:	C-type lectin domain family 1 member B; CLEC1B; CLEC2
Species:	Human
Source:	HEK293
Accession:	Q9P126 (Q58-P229)
Gene ID:	51266
Molecular Weight:	35-38 kDa

### PROPERTIES

AA Sequence	<p>Q R N Y L Q G E N E      N R T G T L Q Q L A      K R F C Q Y V V K Q      S E L K G T F K G H</p> <p>K C S P C D T N W R      Y Y G D S C Y G F F      R H N L T W E E S K      Q Y C T D M N A T L</p> <p>L K I D N R N I V E      Y I K A R T H L I R      W V G L S R Q K S N      E V W K W E D G S V</p> <p>I S E N M F E F L E      D G K G N M N C A Y      F H N G K M H P T F      C E N K H Y L M C E</p> <p>R K A G M T K V D Q      L P</p>
Biological Activity	Measured by its binding ability in a functional ELISA.
Appearance	Solution
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

### DESCRIPTION

Background	<p>CLEC1B/CLEC-2 protein serves as a C-type lectin-like receptor with a notable function as a platelet receptor for the lymphatic endothelial marker, PDPN. Upon ligand activation, it initiates signaling cascades involving the sequential activation of SRC and SYK tyrosine kinases, ultimately leading to the activation of PLCG2. In the context of microbial infection, CLEC1B/CLEC-2 acts as a receptor for the platelet-aggregating snake venom protein rhodocytin. Rhodocytin binding induces tyrosine phosphorylation, facilitating the binding of spleen tyrosine kinase (SYK) and initiating downstream tyrosine phosphorylation events, along with the activation of PLCG2. This multifaceted role highlights the involvement of</p>
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CLEC1B/CLEC-2 in platelet function and immune responses, particularly in the context of interactions with PDPN and rhodocytin.

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

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