

# Rabbit Anti-Human C-type Lectin Domain Family 1, Member B Monoclonal Antibody

**Cat. No.** CAB11514RH    **Lot. No.** (See product label)

## SPECIFICATION

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| <b>Product Overview</b>    | Rabbit Monoclonal Antibody to Human C-type Lectin Domain Family 1, Member B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>              | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Antigen Description</b> | <p>C-type lectin receptor 2, CLEC2, or CLEC1B is a 32kDa transmembrane glycoprotein belonging to the Dectin-1 subfamily of C-type lectin receptors. The myeloid CLEC2 is highly expressed on the surface of platelets and is found at low level at other hematopoietic cells. CLEC2 is typified by possessing an extracellular C-type lectin like domain and a single cytosolic tail. The cytosolic tail of CLEC2 contains a conserved YxxL sequence preceded by three upstream acidic amino acid residues, which together form a novel motif known as a hemITAM. CLEC2 activates platelets through interacting with Src and Syk tyrosine kinase. Ligand binding induces tyrosine phosphorylation of the hemITAM sequence providing docking site for the tandem-SH2 domains of the tyrosine kinase Syk. Tyrosine phosphorylation of Syk is induced by Src family kinases and leads to a series of downstream signaling cascade that culminates in activation of phospholipase Cy2. It has been reported that CLEC2/CLEC1B mediates powerful platelet aggregation by binding to the snake venom toxin, rhodocytin. Besides, it has been hypothesized that endogenous ligand for CLEC2 in renal cells expressing human immunodeficiency virus type 1(HIV1).</p> |
| <b>Specificity</b>         | Human CLEC1B / CLEC2. No cross-reactivity with human cell lysate ( 293 cell line )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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|                     | in WB and ELISA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Immunogen</b>    | Recombinant Human CLEC1B / CLEC2 Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Isotype</b>      | Rabbit IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Clone</b>        | A005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Applications</b> | WB; ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Dilution</b>     | Western blot: This antibody can be used at 1-2 µg/mL with the appropriate secondary reagents to detect Human CLEC1B in WB. Using a DAB detection system, the detection limit for Human CLEC1B is approximately 1 ng/lane under non-reducing conditions and 5 ng/lane under reducing conditions. ELISA: This antibody can be used at 0.1-0.2 µg/mL with the appropriate secondary reagents to detect Human CLEC1B. The detection limit for Human CLEC1B is approximately 0.00245 ng/well. |
| <b>Preparation</b>  | This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant human CLEC1B / CLEC2                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Format</b>       | 0.2 µm filtered solution in PBS with 5% trehalose                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Storage</b>      | This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70°C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.                                                                                            |

## GENE INFORMATION

**Gene Name** CLEC1B C-type lectin domain family 1, member B [ Homo sapiens ]

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| <b>Official Symbol</b>     | CLEC1B                                                                                                                                                                                                         |
| <b>Synonyms</b>            | CLEC1B; C-type lectin domain family 1, member B; C-type lectin domain family 1 member B; CLEC2; CLEC-2; C-type lectin-like receptor 2; C-type lectin-like receptor-2; CLEC2B; PRO1384; QDED721; 1810061I13Rik; |
| <b>Gene ID</b>             | 51266                                                                                                                                                                                                          |
| <b>mRNA Refseq</b>         | NM_001099431                                                                                                                                                                                                   |
| <b>Protein Refseq</b>      | NP_001092901                                                                                                                                                                                                   |
| <b>MIM</b>                 | 606783                                                                                                                                                                                                         |
| <b>UniProt ID</b>          | Q9P126                                                                                                                                                                                                         |
| <b>Chromosome Location</b> | 12p13.31                                                                                                                                                                                                       |
| <b>Function</b>            | protein binding; receptor activity; sugar binding; transmembrane signaling receptor activity;                                                                                                                  |