

Rabbit Monoclonal Antibody to Human Poliovirus Receptor-related 2

Cat. No. CAB11593RH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rabbit Monoclonal Antibody to Human Poliovirus Receptor-related 2
Species	Human
Source	Rabbit
Antigen Description	CD112, also known as Nectin-2, is a single-pass type I transmembrane glycoprotein belonging to the Immunoglobulin superfamily. As a homophilic adhesion molecule, CD112 is widely expressed in human tissues including hematopoietic cells and mediates intercellular junctions of adjacent cells. This protein also serves as an entry for certain mutant strains of herpes simplex virus and pseudorabies virus, and thus is involved in cell to cell spreading of these viruses. CD112 has been identified as the ligand for DNAM-1 (CD226), and the interaction of CD226/CD112 can induce NK cell- and CD8+ T cell-mediated cytotoxicity and cytokine secretion. CD112 has been regarded as a critical component in allergic reactions, and accordingly may function as a novel target for anti-allergic therapy.
Specificity	Human CD112 / Nectin-2 / PVRL2. No cross-reactivity in ELISA with mouse CD112 / PVRL2 and human cell lysate (293 cell line)
Immunogen	Recombinant human CD112 protein
Isotype	Rabbit IgG

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Clone	A018
Applications	Western blot; ELISA
Dilution	Western blot: This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect human CD112 in WB. Using a DAB detection system, the detection limit for human CD112 is approximately 2 ng/lane under non-reducing conditions and 5 ng/lane under reducing conditions Direct ELISA: This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human CD112. The detection limit for human CD112 is approximately 0.00245 ng/well
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant human CD112 extracellular domain
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	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	PVRL2 poliovirus receptor-related 2 (herpesvirus entry mediator B) [Homo sapiens]
Official Symbol	PVRL2
Synonyms	PVRL2; poliovirus receptor-related 2 (herpesvirus entry mediator B); HVEB; poliovirus receptor-related protein 2; CD112; PRR2; PVRR2; nectin-2; poliovirus receptor-like 2; herpesvirus entry protein B;

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Gene ID	5819
mRNA Refseq	NM_001042724
Protein Refseq	NP_001036189
MIM	600798
UniProt ID	Q92692
Chromosome Location	19q13.2-q13.4
Pathway	Adaptive Immune System, organism-specific biosystem; Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Adherens junctions interactions, organism-specific biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; Cell junction organization, organism-specific biosystem;
Function	cell adhesion molecule binding; coreceptor activity; protein binding; protein homodimerization activity; protein homodimerization activity; receptor activity;