

# Rabbit Monoclonal Antibody to Mouse Poliovirus Receptor-related 2

**Cat. No.** CAB11594RM    **Lot. No.** (See product label)

## SPECIFICATION

**Product Overview**      Rabbit Monoclonal Antibody to Mouse Poliovirus Receptor-related 2

**Species**                      Mouse

**Source**                        Rabbit

**Antigen Description**

Mouse poliovirus receptor-related 2 (PVRL2), also known as Nectin-2 and CD112, is a single-pass type I transmembrane glycoprotein belonging to the nectin family, and structurally comprises two Ig-like C2-type domains and one Ig-like V-type domain in the extracellular region. Mouse CD112 is a 70 to 78 kDa type I TM glycoprotein that is found on a variety of cell types. As a homophilic adhesion molecule, CD112 is widely expressed in human tissues including hematopoietic cells and mediates intercellular junctions of adjacent cells. 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 protein serves as an entry for certain mutant strains of herpes simplex virus and pseudorabies virus, and is involved in cell to cell spreading of these viruses. Disruption of both alleles of the murine CD112 gene resulted in morphologically aberrant spermatozoa. CD112 has also been regarded as a critical component in allergic reactions, and accordingly may function as a novel target for anti-allergic therapy. Mouse CD112 ECD shares 72%, 77%, 95% aa identity with the ECD in human, canine and rat CD112, respectively.

**Specificity**                      Mouse PVRL2 / CD112 / Nectin-2. No cross-reactivity with human CD112 / Nectin-2

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	and human cell lysate (293 cell line) in WB and ELISA
<b>Immunogen</b>	Recombinant mouse PVRL2 protein
<b>Isotype</b>	Rabbit IgG
<b>Clone</b>	A111
<b>Applications</b>	Western blot; ELISA
<b>Dilution</b>	Western blot: This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect mouse PVRL2 in WB. Using a DAB detection system, the detection limit for mouse PVRL2 is approximately 1 ng/lane under non-reducing conditions and 0.5 ng/lane under reducing conditions. Direct ELISA: This antibody can be used at 0.5 - 1 µg/mL with the appropriate secondary reagents to detect mouse PVRL2. The detection limit for mouse PVRL2 is 0.00245 ng/well
<b>Preparation</b>	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant mouse PVRL2 extracellular domain
<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.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">Pvrl2 poliovirus receptor-related 2 [ Mus musculus ]</a>

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<b>Official Symbol</b>	Pvrl2
<b>Synonyms</b>	PVRL2; poliovirus receptor-related 2; poliovirus receptor-related protein 2; hveB; mHveB; poliovirus sensitivity; poliovirus receptor homolog; herpesvirus entry mediator B; herpes virus entry mediator B; murine herpesvirus entry protein B; murine herpes virus entry protein B; MPH; Pvr; Pvs; Cd112; AI325026; AI987993; nectin-2;
<b>Gene ID</b>	<a href="#">19294</a>
<b>mRNA Refseq</b>	<a href="#">NM_001159724</a>
<b>Protein Refseq</b>	<a href="#">NP_001153196</a>
<b>Pathway</b>	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;
<b>Function</b>	cell adhesion molecule binding; cell adhesion molecule binding; protein binding; protein homodimerization activity; protein homodimerization activity; receptor activity;

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