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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	and human cell lysate (293 cell line) in WB and ELISA
Immunogen	Recombinant mouse PVRL2 protein
Isotype	Rabbit IgG
Clone	A111
Applications	Western blot; ELISA
Dilution	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 conditionsDirect 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
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant mouse PVRL2 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 [Mus musculus]

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Official Symbol	Pvrl2
Synonyms	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;
Gene ID	19294
mRNA Refseq	NM_001159724
Protein Refseq	NP_001153196
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; cell adhesion molecule binding; protein binding; protein homodimerization activity; protein homodimerization activity; receptor activity;

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA