

Active Recombinant Mouse PVRIG protein, Fc-tagged

Cat. No. PVRIG-12M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The extracellular domain of mouse CD112R (aa 28-165) fused with the C-terminus to the Fc portion of human IgG1 was expressed in HEK 293 cells.
Species	Mouse
Source	HEK293
ProteinLength	28-165 a.a.
Description	CD112 (also called Nectin-2 or poliovirus receptor-related 2 protein) is a type I transmembrane glycoprotein and a member of the Ig gene superfamily (IGSF). CD112/Nectin-2 functions as an adhesion molecule involved in the formation of cell junctions and interactions with other Nectin-family molecules. Nectin-2 is a also a surface marker of some endothelial cells and regulates migration, proliferation and angiogenesis. CD112 functions as an immune checkpoint regulator by modulating T cell signaling, either as a costimulator of T cell function, or as a coinhibitor of T cells proliferation by binding to the receptors CD226 or TIGIT (T cell Ig and immunoreceptor tyrosine-based inhibitory motif (ITIM) domain), respectively. The binding of CD112 ligand to these receptors is weak compared to CD155. Recently, a new receptor of CD112, called CD112R or PVRIG (Poliovirus receptor-related immunoglobulin domain-containing protein) has been characterized, showing high affinity to CD112. CD112R is a new coinhibitory receptor of the PVR family for human T cells, inhibiting TCR-mediated signals upon binding to CD112/Nectin-2. CD112R is preferentially expressed in T lymphocytes and NK cells. Cancer cells evade immune

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responses as a result of an immunosuppressive tumor microenvironment and CD112R, by playing a role in the regulation of the immune system, could be a new attractive cancer immunotherapy target.

Form	Lyophilized. Contains PBS.
Bio-activity	Binds to the ligand mouse CD112 (PVRL2, Nectin-2) with an EC50 of 5nM.
Molecular Mass	~48-50 kDa (SDS-PAGE)
Endotoxin	<0.01EU/μg purified protein (LAL test)
Purity	>90% (SDS-PAGE)
Stability	Stable for at least 6 months after receipt when stored at -20 centigrade.
Storage	Short term store at +4 centigrade, store at -20 centigrade for long term storage.
Concentration	0.1mg/mL after reconstitution.
Reconstitution	Reconstitute with 100 μL sterile water.
Handling	After reconstitution, prepare aliquots and store at -20 centigrade. Avoid freeze/thaw cycles. PBS containing at least 0.1% BSA should be used for further dilutions.

GENE INFORMATION

Gene Name	poliovirus receptor related immunoglobulin domain containing [Mus musculus (house mouse)]
Official Symbol	Pvrig

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Synonyms	CD112 Receptor; Poliovirus Receptor-related Immunoglobulin Domain-containing Protein; Transmembrane Protein PVRIG
Gene ID	102640920
mRNA Refseq	XM_011240963.2
Protein Refseq	XP_011239265.1
UniProt ID	A0A1B0GS01

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