

## Active Recombinant Mouse PVRIg protein, Fc-tagged

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

### SPECIFICATION

<b>Product Overview</b>	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.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>ProteinLength</b>	28-165 a.a.
<b>Description</b>	<p>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 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</p>

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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.

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

<b>Gene Name</b>	poliovirus receptor related immunoglobulin domain containing [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	<i>Pvrig</i>

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<b>Synonyms</b>	CD112 Receptor; Poliovirus Receptor-related Immunoglobulin Domain-containing Protein; Transmembrane Protein PVRIG
<b>Gene ID</b>	<a href="#">102640920</a>
<b>mRNA Refseq</b>	<a href="#">XM_011240963.2</a>
<b>Protein Refseq</b>	<a href="#">XP_011239265.1</a>
<b>UniProt ID</b>	<a href="#">A0A1B0GS01</a>

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