

## CD112R (PN0428) Nb-FC recombinant antibody

<b>Catalog No :</b>	YA0038
<b>Reactivity :</b>	Human
<b>Applications :</b>	ELISA
<b>Target :</b>	CD112R
<b>Gene Name :</b>	PVRIG C7orf15
<b>Protein Name :</b>	Transmembrane protein PVRIG (CD112 receptor) (CD112R) (Poliovirus receptor-related immunoglobulin domain-containing protein)
<b>Human Gene Id :</b>	79037
<b>Human Swiss Prot No :</b>	Q6DKI7
<b>Immunogen :</b>	Purified recombinant Human CD112R
<b>Specificity :</b>	This recombinant monoclonal antibody can detects endogenous levels of CD112R protein.
<b>Formulation :</b>	Phosphate-buffered solution
<b>Source :</b>	Camel, chimeric fusion of Nanobody (VHH) and mouse IgG1 Fc domain , recombinantly produced from 293F cell
<b>Dilution :</b>	ELISA 1:5000-100000
<b>Purification :</b>	Recombinant Expression and Affinity purified
<b>Concentration :</b>	Please check the information on the tube
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Avoid freeze / thaw cycles)
<b>Background :</b>	CD112R gene encodes a single transmembrane protein consisting of a single extracellular IgV domain. Its long intracellular domain contains two tyrosine residues, one of which is within an ITIM-like motif. CD112R was initially named

PVRIG for the homology observed between its second exon and the variable immunoglobulin domain of the polio virus receptor (PVR/CD155) and polio virus receptor-like (PVRL) genes. CD112R is a cell surface receptor for CD112/Nectin-2, it compete against CD226 in binding to CD112. Following interaction with CD112, CD112R inhibits T-cell proliferation and the disruption of interaction between CD112R and CD112 enhances T cell response. Published studies suggest that CD112R is a novel co-inhibitory receptor, or a checkpoint molecule, that suppressed TCR mediated signal.

### Function :

Cell surface receptor for NECTIN2. May act as a coinhibitory receptor that suppresses T-cell receptor-mediated signals. Following interaction with NECTIN2, inhibits T-cell proliferation. Competes with CD226 for NECTIN2-binding.

### Subcellular Location :

Cell membrane ; Multi-pass membrane protein .

### Expression :

Expressed in some types of immune cells. Expressed at low levels on the surface of freshly isolated T-cells and natural killer (NK) cells, predominantly on CD8+ T-cells (mainly memory/effector, but not naive cells) and on both CD16+ and CD16- NK cells. T-cell expression levels are variable among individuals. Not detected in B-cells, naive or helper T-cells, monocytes, nor neutrophils (at protein level). Not detected in dendritic cells.

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