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## CD112R (PN0429) Nb-FC recombinant antibody

| Catalog No: | YA0039 |
| :---: | :---: |
| Reactivity : | Human |
| Applications : | ELISA |
| Target : | CD112R |
| Gene Name: | PVRIG C7orf15 |
| Protein Name : | Transmembrane protein PVRIG (CD112 receptor) (CD112R) (Poliovirus receptor-related immunoglobulin domain-containing protein) |
| Human Gene Id : | 79037 |
| Human Swiss Prot | Q6DK17 |
| No: |  |
| Immunogen : | Purified recombinant Human CD112R |
| Specificity: | This recombinant monoclonal antibody can detects endogenous levels of CD112R protein. |

Formulation: $\quad$ Phosphate-buffered solution

Source : $\quad$| Camel, chimeric fusion of Nanobody (VHH) and mouse IgG1 Fc domain, |
| :--- |
| recombinantly produced from 293F cell |

Dilution: ELISA 1:5000-100000

Purification: Recombinant Expression and Affinity purified

Concentration: Please check the information on the tube

Storage Stability: $\quad-15^{\circ} \mathrm{C}$ to $-25^{\circ} \mathrm{C} / 1$ year(Avoid freeze / thaw cycles)

Background : CD112R gene encodes a single transmembrane protein consisting of a single extracellular $\lg V$ domain. Its long intracellular domain contains two tyrosine residues, one of which is within an ITIM-like motif. CD112R was initially named

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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 medicated signal.

## Function:

## Subcellular

 Location:Expression :

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.

Cell membrane ; Multi-pass membrane protein .

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.

