



# Recombinant Protein Technical Manual

## Recombinant Mouse CD112/Nectin-2 Protein (His Tag)(Active)

RPES2906

### Product Data:

**Product SKU:** RPES2906

**Size:** 50µg

**Species:** Mouse

**Expression host:** HEK293 Cells

**Uniprot:** NP\_033016.3

### Protein Information:

**Molecular Mass:** 36 kDa

**AP Molecular Mass:** 40-45 kDa

**Tag:** C-His

**Bio-activity:** Measured by its binding ability in a functional ELISA.1. Immobilized mouse CD112-His at 10 µg/ml (100 µl/well) can bind biotinylated mouse DNAM1-His with a linear range of 0.156-5.0 µg/ml.2. Immobilized mouse CD112-His at 10 µg/ml (100 µl/well) can bind

**Purity:** > 98 % as determined by SDS-PAGE

**Endotoxin:** < 1.0 EU per µg of the protein as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from sterile PBS, pH 7.4

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:** Functional ELISA

**Synonyms:** AI325026 Protein, AI987993 Protein, Cd112 Protein, MPH Protein, nectin-2 Protein, Pvr Protein, Pvs Protein

## Immunogen Information:

**Sequence:** Met 1-Gly 351

## Background:

Cluster of Differentiation 112 (CD112), also known as poliovirus receptor related protein 2 (PVRL2 or PRR2), is a single-pass type I transmembrane glycoprotein belonging to the Immunoglobulin superfamily. CD112 protein also serves as an entry for certain mutant strains of herpes simplex virus and pseudorabies virus, and thus is involved in cell to cell spreading of these viruses. CD112 protein has been identified as the ligand for DNAM (CD226), and the interaction of CD226/CD112 protein can induce NK cell- and CD8+ T cell-mediated cytotoxicity and cytokine secretion. CD112 has been regarded as a critical component in allergic reactions, and accordingly may function as a novel target for anti-allergic therapy.