

Nectin-2 Active Protein | NECTIN2 active protein

Nectin-2 Protein, Human, Recombinant (ECD, His Tag)

CATALOG #
AAA257812

HOST
HEK293 Cells

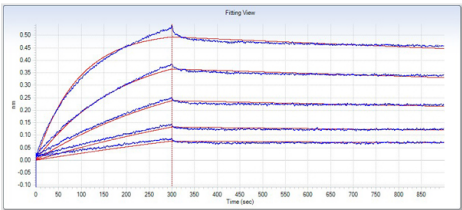
PRODUCT SYNONYMS

Nectin-2; Nectin-2 Protein; Human; Recombinant (ECD; His Tag); Human CD112/Nectin-2/PVRL2 Protein (ECD; CD112 Protein; HVEB Protein; PRR2 Protein; PVRR2 Protein; poliovirus receptor-related 2 (herpesvirus entry mediator B); NECTIN2 active protein

PRODUCT SPECIFICATIONS

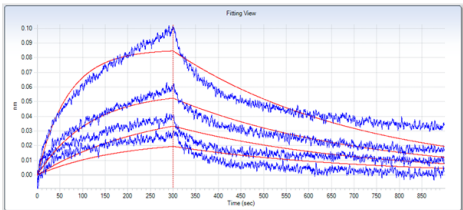
Host	HEK293 Cells
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Leu36 0
Species	Human
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Gln 32
Tag	C-His
Protein Construction	A DNA sequence encoding the extracellular domain (Met 1-Leu 360) of human CD112 (NP_002847.1) was expressed with a C-terminal polyhistidine tag.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	1. Measured by its binding ability in a functional ELISA. Immobilized recombinant human CD112 at 20ug/ml (100uL/well) can bind biotinylated DNAM1 with a linear range of 0.078-2.5ug/ml. 2. Using the Octet RED System. The affinity constant (Kd) of Anti-CD112 Antibody bound to Nectin-2 Protein, Human, Recombinant (His Tag) was 34.4nM.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.

IMAGES



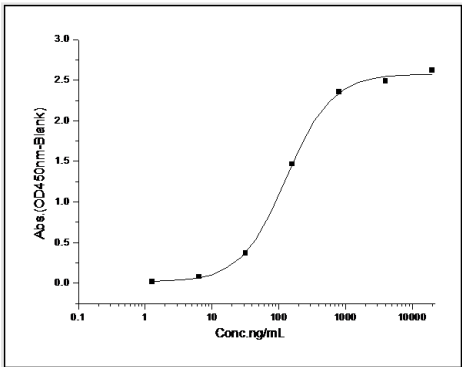
Application Data

Loaded Anti-CD112 Antibody on AMC Biosensor, can bind Nectin-2 Protein, Human, Recombinant (His Tag) with an affinity constant of 34.4 nM as determined by Octet RED System.



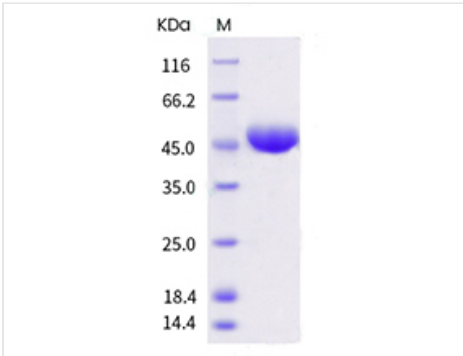
Application Data

Using the Octet RED System, the affinity constant (Kd) of Nectin-2 Protein, Human, Recombinant (His Tag) bound Anti-CD112 Antibody was 0.1uM.



Application Data

Measured by its binding ability in a functional ELISA. Immobilized recombinant human CD112 at 20 ug/ml (100 ul/well) can bind biotinylated DNAM1 with a linear range of 0.078-2.5 ug/ml.



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for NECTIN2 active protein	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-1 (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.
References	Bachelet I, et al. (2006) Mast cell costimulation by CD226/CD112 (DNAM-1/Nectin-2): a novel interface in the allergic process. J Biol Chem. 281(37): 27190-6.Wang L, et al. (2009) Molecular cloning, characterization and three-dimensional modeling of porcine nectin-2/CD112. Vet Immunol Immunopathol. 132(2-4): 257-63.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5360210
NCBI GeneID	5819
NCBI Accession #	NP_002847.1
NCBI GenBank Nucleotide #	NM_002856.2
UniProt Accession #	Q92692; O75455; Q6IBI6; Q96J29; A8K5L5
Molecular Weight	51,359 Da
NCBI Official Full Name	nectin-2 isoform alpha
NCBI Official Synonym Full Names	nectin cell adhesion molecule 2
NCBI Official Symbol	NECTIN2

NCBI Official Synonym Symbols	HVEB; PRR2; CD112; PVRL2; PVRR2
NCBI Protein Information	nectin-2
UniProt Protein Name	Nectin-2
UniProt Gene Name	NECTIN2
UniProt Synonym Gene Names	Herpesvirus entry mediator B; HveB

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/hek293-nectin2-active-protein/nectin-2/257812>