

Protein Name
 Nectin-3

Expression Host
 HEK293T

Alternate Name(s)
 poliovirus receptor-related 3, PVRL3, cluster of differentiation 113, CD113, nectin3, CDW113, PPR3, PRR3, PVRR3, nectin cell adhesion molecule 3

Purity
 Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition

Protein Construct
 Nectin-3 dimer protein contains a Nectin-3 extracellular domain (UniProt# Q9NQS3) fused with a proprietary cis-dimer motif followed by a tandem His-Avi tag at the C-terminus. Expressed in HEK293T cell line.

Amino Acid Range
 1: G58-T404

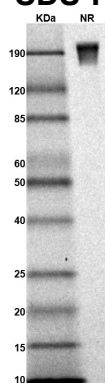
SDS-Page Molecular Weight
 96 kDa. The migration range of the heterodimer protein with glycosylation under non-reducing condition is ~190 kDa on SDS PAGE.

Formulation
 0.22µm filtered PBS, pH 7.4

Shipping Conditions
 Frozen Dry Ice

Stability & Storage
 -80°C

SDS-PAGE



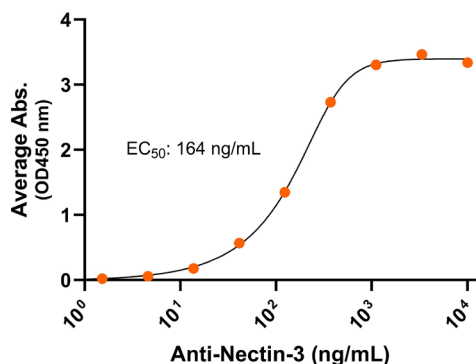
MW: Molecular Weight marker reduced condition
 NR: Nectin-3 dimer under non-reduced condition

The migration range of the heterodimer protein with glycosylation under non-reducing condition is ~190 kDa on SDS PAGE.

Bioactivity – Antibody Binding

Human Nectin-3-His-Avi dimer, ELISA

0.2 µg of Nectin-3 protein dimer per well

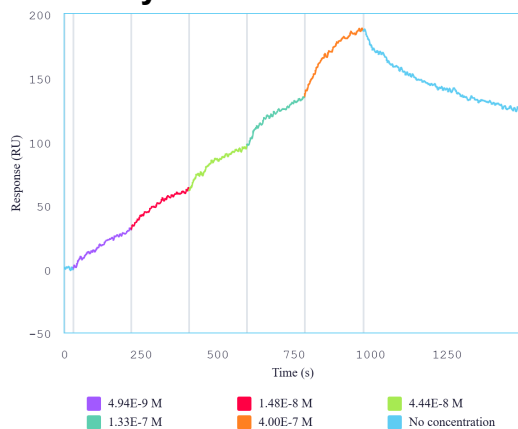


Immobilized human Nectin-3 protein dimer, His-Avi tag (Cat. No. CSP-25196-03) at 2 µg/mL (100 µL/well) can bind anti-human Nectin-3 monoclonal antibody with half maximal effective concentration (EC₅₀) range of 82-327.8 ng/mL (QC tested).

Bioactivity – Ligand Binding

~i:143:200~

Bioactivity – SPR



Immobilized human Nectin-1 protein dimer, His-Avi tag (Cat. No. CSP-25195-03) can bind human Nectin-3 protein dimer, His-Avi tag (Cat. No. CSP-25196-03) with a K_D of 3-11.8 nM as determined by LSPR (Nicoya Alto).



Bioactive, Recombinant Human Nectin-3 / CD113 Protein Dimer, His-Avi Tag
Product Code: CSP-25196-03
For Research Use Only (RUO)

Background

Human Nectin-3 is a type 1 integral membrane glycoprotein that can form a homo-cis dimer on the cell membrane. Nectin-3 is also known as poliovirus receptor-related 3 (PVRL3) and cluster of differentiation 113 (CD113). Nectin-3 contains an extracellular domain with three immunoglobulin-like (Ig-like) domains. Nectin-3 interacts with Nectin-1. Nectin-1 and Nectin-3 are expressed in neuronal tissue and unlike many other cellular adhesion molecules, they do not distribute evenly. Nectin-3 is primarily found on the dendritic side and Nectin-1 is primarily found on the axonal side. The interaction of Nectin-1 with Nectin-3 has been found to be essential for proper morphogenesis of the eye. Additionally, Nectin-3 is highly expressed in epithelial cancer cells of 80% of patients with human lung adenocarcinoma. Therefore, a recombinant protein mimicking the Nectin-3 dimer conformation can be crucial for cancer therapeutic discovery.