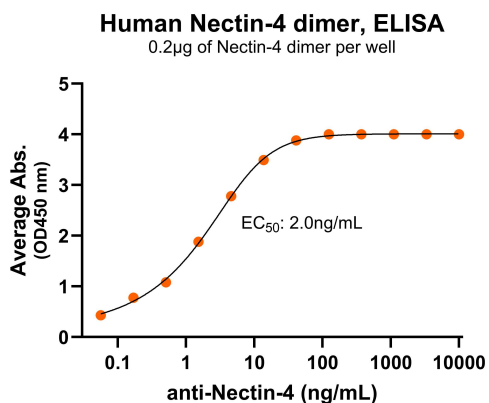
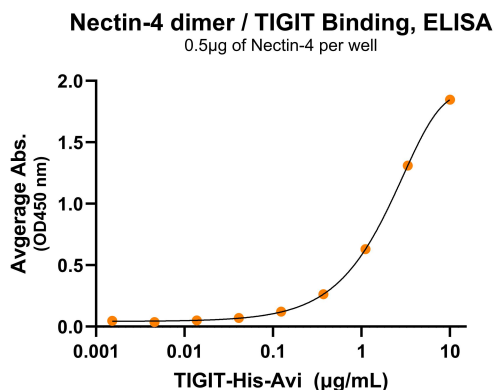


Bioactivity – Antibody Binding



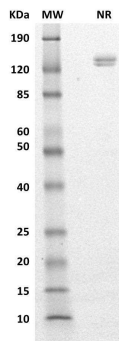
Immobilized human Nectin-4 dimer protein (Cat. No. CSP-24016) at 2 µg/mL (100 µL/well) can bind anti-human Nectin-4 monoclonal antibody with half maximal effective concentration (EC₅₀) range of 1.1 - 4.3 ng/mL (QC tested).

Bioactivity – Ligand Binding



Immobilized human Nectin-4 dimer protein (Cat. No. CSP-24016) at 5 µg/mL (100 µL/well) can bind TIGIT-His-Avi dimer protein (Cat. No. CSP-24028-03), (QC tested).

SDS-PAGE



MW: Molecular Weight marker reduced condition
NR: Nectin-4 dimer under non-reducing condition

Migration range of the dimer under non-reducing condition is 90-130 kDa on SDS-PAGE.

Expression Host
HEK293T

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

Protein Construct
Nectin-4 protein cis-dimer (amino acids Gly32-Ser349) contains Nectin-4 extracellular 3 Ig-like domains (UniProt# Q96NY8) with a homodimer motif and a His tag at the C-terminus. Expressed in HEK293T cell line.

SDS-Page Molecular Weight
92 kDa. Migration range of the dimer under non-reducing condition is 90-130 kDa on SDS-PAGE.

Shipping Conditions
Frozen Dry Ice

Protein Name
NECTIN4

Alternate Name(s)
Poliovirus receptor-related-4PVRL4, LNIR, PRR4, EDSS1

Amino Acid Range
G32-S349

Formulation
0.22µm filtered PBS, pH 7.4

Stability & Storage
-80°C

Background

Nectin-4, also known as PVRL-4, is a type 1 integral membrane glycoprotein that can form a homo-cis dimer on the cell membrane. It consists of an extracellular region with three immunoglobulin-like (Ig-like) domains, organized as a variable-like (Ig-V) domain followed by two constant-like (Ig-C) domains (V-C-C), one transmembrane region, and a cytoplasmic domain. Nectin-4 promotes tumor growth and is overexpressed in numerous tumor types such as breast, lung, ovarian, urothelial, colorectal, and pancreatic cancer. Nectin-4 is a ligand of TIGIT (T-cell immunoreceptor with Ig and ITIM domains). Nectin-4 is an emerging target of cancer therapeutics. A recombinant protein mimicking the Nectin-4 native dimer conformation can be crucial for therapeutic antibody and vaccine discovery.