

# Active Recombinant Human NECTIN4 Homodimer Protein, His tagged

**Cat. No.** NECTIN4-50H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | 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 was expressed in HEK293T.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | HEK293T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>    | 32-349 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | 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. |
| <b>Molecular Mass</b>   | 92 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Purity</b>           | Greater than 90% dimer form as determined by SDS-PAGE under non-reducing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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|                       |                                                                                                                                                                                                |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | condition                                                                                                                                                                                      |
| <b>Application</b>    | Verified Applications: ELISA, Western blot for Nectin-4-specific antibody and TIGIT receptor protein binding assays; animal immunization, RUO Suggested Applications: BLI, SPR, B cell sorting |
| <b>Storage</b>        | Store at -80 centigrade.                                                                                                                                                                       |
| <b>Storage Buffer</b> | 0.22µm filtered PBS, pH 7.4                                                                                                                                                                    |
| <b>Shipping</b>       | Frozen Dry Ice                                                                                                                                                                                 |

## GENE INFORMATION

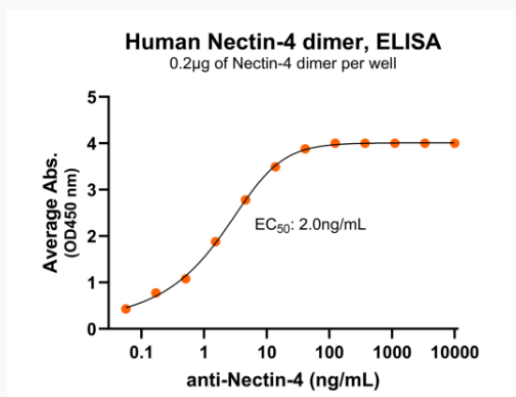
|                        |                                                                                                                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | NECTIN4 nectin cell adhesion molecule 4 [ Homo sapiens (human) ]                                                                                                                                     |
| <b>Official Symbol</b> | NECTIN4                                                                                                                                                                                              |
| <b>Synonyms</b>        | NECTIN4; nectin cell adhesion molecule 4; LNIR; PRR4; EDSS1; PVRL4; nectin-4; nectin-4; Ig superfamily receptor LNIR; nectin 4; poliovirus receptor-related 4; poliovirus receptor-related protein 4 |
| <b>Gene ID</b>         | 81607                                                                                                                                                                                                |
| <b>mRNA Refseq</b>     | NM_030916                                                                                                                                                                                            |
| <b>Protein Refseq</b>  | NP_112178                                                                                                                                                                                            |
| <b>MIM</b>             | 609607                                                                                                                                                                                               |
| <b>UniProt ID</b>      | Q96NY8                                                                                                                                                                                               |

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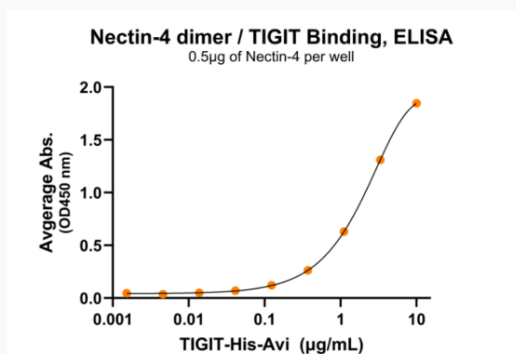
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### Bioactivity-Antibody Binding



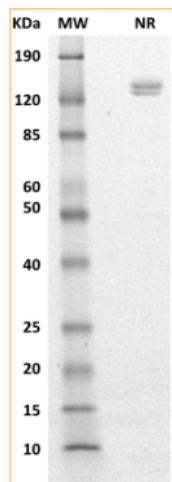
Immobilized human Nectin-4 dimer protein at 2 µg/mL (100 µL/well) can bind anti-human Nectin-4 monoclonal antibody with half maximal effective concentration (EC50) range of 1.1 – 4.3 ng/mL (QC tested).

### Bioactivity-Ligand Binding



Immobilized human Nectin-4 dimer protein at 5 µg/mL (100 µL/well) can bind TIGIT-His-Avi dimer protein (QC tested).

## SDS-PAGE and WB



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

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