

Nectin-3/CD113 Protein, Human (HEK293, His-Avi)

Cat. No.:	HY-P78496
Synonyms:	CD113; CDw113; FLJ90624; PPR3; PVRL3; PVRR3; PRR3
Species:	Human
Source:	HEK293
Accession:	Q9NQS3 (G58-D400)
Gene ID:	25945
Molecular Weight:	68-82 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μ m filtered solution of 20 mM PB, 250 mM NaCl, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Nectin-3/CD113, a versatile cell adhesion protein, plays a pivotal role in mediating cell-cell interactions through heterophilic trans-binding with nectin-like proteins or nectins, exemplified by its interaction with NECTIN2 at Sertoli-spermatid junctions. This trans-interaction with PVR triggers the activation of CDC42 and RAC small G proteins, mediated by common signaling molecules such as SRC and RAP1. Beyond its involvement in adherens junctions and synapses, Nectin-3/CD113 induces endocytosis-mediated down-regulation of PVR from the cell surface, leading to a reduction in cell movement and proliferation. Furthermore, it contributes to the morphology of the ciliary body and forms cis- and trans-homodimers, as well as trans-heterodimers with various proteins, including NECTIN1, NECTIN2, PVR, IGSF4B/Necl-1, and IGSF4. The interaction between NECTIN1 and NECTIN3 at pre- and postsynaptic sites initiates the formation of puncta adherentia junctions between axons and dendrites. Additionally, Nectin-3/CD113 binds with low affinity to TIGIT and interacts with AFDN, establishing a connection with the actin cytoskeleton.
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Caution: Product has not been fully validated for medical applications. For research use only.

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