

Nectin 3 (N3.12.4): sc-69715

BACKGROUND

Nectin is a Ca^{2+} -independent homophilic cell adhesion molecule that belongs to the immunoglobulin superfamily. Human Nectin is identical to the poliovirus receptor-related protein (PRR) and is identified to be the α herpesvirus entry mediator. Nectin constitutes a family consisting of at least Nectin 1, 2 and 3. Nectin 2 and 3 are ubiquitously expressed, whereas Nectin 1 is abundantly expressed in brain. Nectin 3, also designated as PRR3, has three splicing variants: Nectin 3 α , 3 β and 3 γ . Nectin 3 is a transmembrane protein whose extracellular region contains three Ig-like domains. Nectin 3 α and 3 β , but not Nectin 3 γ , have a C-terminal conserved motif (E/A-X-Y-V). This motif interacts with the PDZ domain of the F-Actin-binding protein, afadin, through which it is linked to the Actin cytoskeleton. Nectin 3 α co-localizes with Nectin 2 at adherin-based adheren junctions and interacts with afadin.

REFERENCES

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- Kikyo, M., Matozaki, T., Kodama, A., Kawabe, H., Nakanishi, H. and Takai, Y. 2000. Cell-cell adhesion-mediated tyrosine phosphorylation of Nectin 2 δ , an immunoglobulin-like cell adhesion molecule at adherens junctions. *Oncogene* 19: 4022-4028.
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CHROMOSOMAL LOCATION

Genetic locus: PVRL3 (human) mapping to 3q13.13.

SOURCE

Nectin 3 (N3.12.4) is a mouse monoclonal antibody raised against full-length recombinant Nectin 3 of human origin.

PRODUCT

Each vial contains 200 μg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Nectin 3 (N3.12.4) is available conjugated to either phycoerythrin (sc-69715 PE) or fluorescein (sc-69715 FITC), 200 $\mu\text{g}/\text{ml}$, for WB (RGB), IF, IHC(P) and FCM.

APPLICATIONS

Nectin 3 (N3.12.4) is recommended for detection of Nectin 3 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μg per 100-500 μg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 μg per 1×10^6 cells); may cross-react with Nectin 3 of monkey origin.

Suitable for use as control antibody for Nectin 3 siRNA (h): sc-36024, Nectin 3 shRNA Plasmid (h): sc-36024-SH and Nectin 3 shRNA (h) Lentiviral Particles: sc-36024-V.

Molecular Weight of Nectin 3: 83 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, human placenta extract: sc-363772 or HL-60 whole cell lysate: sc-2209.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG κ BP-FITC: sc-516140 or m-IgG κ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

SELECT PRODUCT CITATIONS

- Stanietsky, N., Ravis, T.L., Glasner, A., Seidel, E., Tsukerman, P., Yamin, R., Enk, J., Jonjic, S. and Mandelboim, O. 2013. Mouse TIGIT inhibits NK-cell cytotoxicity upon interaction with PVR. *Eur. J. Immunol.* 43: 2138-2150.
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STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.