

Nectin 3 (H-11): sc-271611

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 alpha 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 cadherin-based adherens junctions and interacts with afadin.

REFERENCES

1. Lopez, M., et al. 1995. Complementary DNA characterization and chromosomal localization of a human gene related to the poliovirus receptor-encoding gene. *Gene* 155: 261-265.
2. Asakura, T., et al. 1999. Similar and differential behavior between the Nectin-afadin-ponsin and cadherin-catenin systems during the formation and disruption of the polarized junctional alignment in epithelial cells. *Genes Cells* 4: 573-581.
3. Kikyo, M., et al. 2000. Cell-cell adhesion-mediated tyrosine phosphorylation of Nectin-2 δ , an immunoglobulin-like cell adhesion molecule at adherens junctions. *Oncogene* 19: 4022-4028.
4. Satoh-Horikawa, K., et al. 2000. Nectin 3, a new member of immunoglobulin-like cell adhesion molecules that shows homophilic and heterophilic cell-cell adhesion activities. *J. Biol. Chem.* 275: 10291-10299.
5. Reymond, N., et al. 2000. Human Nectin 3/PRR3: a novel member of the PVR/PRR/Nectin family that interacts with afadin. *Gene* 255: 347-355.

CHROMOSOMAL LOCATION

Genetic locus: PVRL3 (human) mapping to 3q13.13; Pvr13 (mouse) mapping to 16 B5.

SOURCE

Nectin 3 (H-11) is a mouse monoclonal antibody raised against amino acids 301-545 mapping near the C-terminus of Nectin 3 of human origin.

PRODUCT

Each vial contains 200 μ g IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Nectin 3 (H-11) is available conjugated to agarose (sc-271611 AC), 500 μ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-271611 HRP), 200 μ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-271611 PE), fluorescein (sc-271611 FITC), Alexa Fluor[®] 488 (sc-271611 AF488), Alexa Fluor[®] 546 (sc-271611 AF546), Alexa Fluor[®] 594 (sc-271611 AF594) or Alexa Fluor[®] 647 (sc-271611 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-271611 AF680) or Alexa Fluor[®] 790 (sc-271611 AF790), 200 μ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

Nectin 3 (H-11) is recommended for detection of Nectin 3 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Nectin 3 siRNA (h): sc-36024, Nectin 3 siRNA (m): sc-36025, Nectin 3 shRNA Plasmid (h): sc-36024-SH, Nectin 3 shRNA Plasmid (m): sc-36025-SH, Nectin 3 shRNA (h) Lentiviral Particles: sc-36024-V and Nectin 3 shRNA (m) Lentiviral Particles: sc-36025-V.

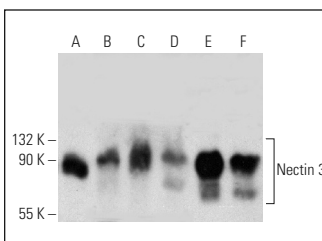
Molecular Weight of Nectin 3: 83 kDa.

Positive Controls: NTERA-2 cl.D1 whole cell lysate: sc-364181, JAR cell lysate: sc-2276 or F9 cell lysate: sc-2245.

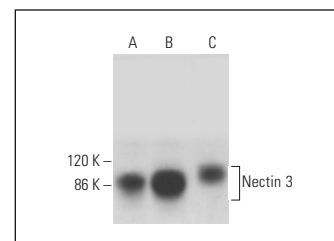
RECOMMENDED SUPPORT REAGENTS

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.

DATA



Nectin 3 (H-11): sc-271611. Western blot analysis of Nectin 3 expression in NTERA-2 cl.D1 (A), JAR (B), F9 (C), C3H/10T1/2 (D), NRK (E) and RIN-m5F (F) whole cell lysates.



Nectin 3 (H-11): sc-271611. Western blot analysis of Nectin 3 expression in 3T3-L1 (A), NIH/3T3 (B) and NCI-H292 (C) whole cell lysates.

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.

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