

Nectin 2 (D-11): sc-373715

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 has been identified as the α -herpesvirus entry mediator. Nectin constitutes a family consisting of at least Nectin 1, 2 and 3; each member has two or three splicing variants. Nectin 2, also designated PRR2/HveB, is ubiquitously expressed, with the highest levels of expression in some human neuronal cell lines, fibroblastic cells, keratinocytes and primary activated T lymphocytes. Nectin 2 has two splicing variants, Nectin 2 α (short form) and 2 δ (long form). Both Nectin 2 α and 2 δ 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. The extracellular regions of the splicing variants are identical, but their transmembrane regions and cytoplasmic regions are unique. Nectin 2 mediates the entry of three mutant herpes simplex virus type 1 (HSV-1) strains that do not use HveA as co-receptor, but not wildtype HSV-1 strains. Nectin 2 also mediates the entry of HSV-2 and pseudorabies virus, but not bovine herpes virus type 1. Nectin 2 δ is tyrosine phosphorylated in response to cell-cell adhesion.

CHROMOSOMAL LOCATION

Genetic locus: PVRL2 (human) mapping to 19q13.32; Pvr12 (mouse) mapping to 7 A3.

SOURCE

Nectin 2 (D-11) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 23-56 near the N-terminus of Nectin 2 of human origin.

PRODUCT

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

Nectin 2 (D-11) is available conjugated to agarose (sc-373715 AC), 500 μ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-373715 HRP), 200 μ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-373715 PE), fluorescein (sc-373715 FITC), Alexa Fluor[®] 488 (sc-373715 AF488), Alexa Fluor[®] 546 (sc-373715 AF546), Alexa Fluor[®] 594 (sc-373715 AF594) or Alexa Fluor[®] 647 (sc-373715 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-373715 AF680) or Alexa Fluor[®] 790 (sc-373715 AF790), 200 μ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-373715 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

STORAGE

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

PROTOCOLS

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

APPLICATIONS

Nectin 2 (D-11) is recommended for detection of Nectin 2 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), immunohistochemistry (including paraffin-embedded sections) (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 2 siRNA (h): sc-43169, Nectin 2 siRNA (m): sc-43170, Nectin 2 shRNA Plasmid (h): sc-43169-SH, Nectin 2 shRNA Plasmid (m): sc-43170-SH, Nectin 2 shRNA (h) Lentiviral Particles: sc-43169-V and Nectin 2 shRNA (m) Lentiviral Particles: sc-43170-V.

Molecular Weight of Nectin 2 α : 60 kDa.

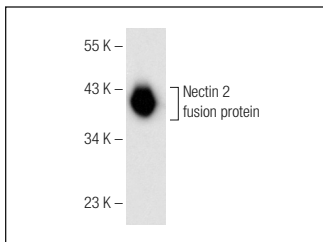
Molecular Weight of Nectin 2 δ : 65 kDa.

Positive Controls: ECV304 cell lysate: sc-2269.

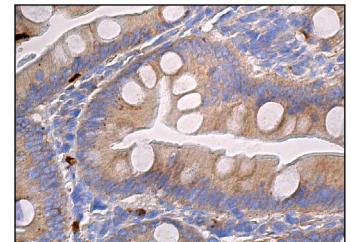
RECOMMENDED SUPPORT REAGENTS

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. 4) Immunohistochemistry: use m-IgG κ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

DATA



Nectin 2 (D-11): sc-373715. Western blot analysis of human full length recombinant Nectin 2 fusion protein.



Nectin 2 (D-11): sc-373715. Immunoperoxidase staining of formalin fixed, paraffin-embedded human duodenum tissue showing cytoplasmic staining of glandular cells.

SELECT PRODUCT CITATIONS

- Di Pietro, M., et al. 2017. *In vivo* intrabursal administration of bioactive lipid sphingosine-1-phosphate enhances vascular integrity in a rat model of ovarian hyperstimulation syndrome. *Mol. Hum. Reprod.* 23: 417-427.

RESEARCH USE

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

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