

Nectin 3 (H-245): sc-28637

BACKGROUND

Nectin is a Ca²⁺-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 cadherin-based adheren junctions and interacts with afadin.

CHROMOSOMAL LOCATION

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

SOURCE

Nectin 3 (H-245) is a rabbit polyclonal 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 IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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

APPLICATIONS

Nectin 3 (H-245) is recommended for detection of Nectin 3 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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).

Nectin 3 (H-245) is also recommended for detection of Nectin 3 in additional species, including bovine.

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.

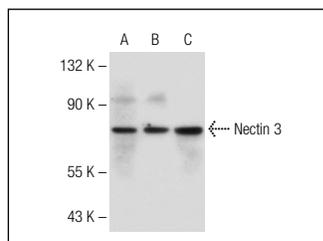
Molecular Weight of Nectin 3: 83 kDa.

Positive Controls: NTERA-2 cl.D1 whole cell lysate: sc-364181, JAR cell lysate: sc-2276 or JEG-3 whole cell lysate: sc-364255.

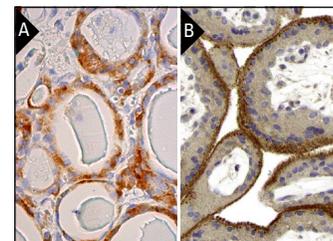
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



Nectin 3 (H-245): sc-28637. Western blot analysis of Nectin 3 expression in NTERA-2 cl.D1 (A), JAR (B) and JEG-3 (C) whole cell lysates.



Nectin 3 (H-245): sc-28637. Immunoperoxidase staining of formalin fixed, paraffin-embedded human thyroid gland tissue showing cytoplasmic staining of glandular cells (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human placenta tissue showing cytoplasmic and membrane staining of trophoblastic cells. Kindly provided by The Swedish Human Protein Atlas (HPA) program (B).

SELECT PRODUCT CITATIONS

- Kusanagi, R., et al. 2009. Nectin-3 expression is elevated in limbal epithelial side population cells with strongly expressed stem cell markers. *Biochem. Biophys. Res. Commun.* 389: 274-278.
- Xiao, X., et al. 2013. Intercellular adhesion molecule-2 is involved in apical ectoplasmic specialization dynamics during spermatogenesis in the rat. *J. Endocrinol.* 216: 73-86.

RESEARCH USE

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

PROTOCOLS

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



Try **Nectin 3 (H-11): sc-271611** or **Nectin 3 (N3.81.6): sc-69716**, our highly recommended monoclonal alternatives to Nectin 3 (H-245).