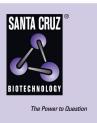
## SANTA CRUZ BIOTECHNOLOGY, INC.

# Nectin 3 (C-19): sc-14806



### BACKGROUND

Nectin is a Ca<sup>2+</sup>-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 $\alpha$ , 3 $\beta$  and 3 $\gamma$ . Nectin 3 is a transmembrane protein whose extracellular region contains three Ig-like domains. Nectin 3 $\alpha$  and 3 $\beta$ , but not Nectin 3 $\gamma$ , 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 $\alpha$  co-localizes with Nectin 2 at cadherin-based adheren junctions and interacts with afadin.

## CHROMOSOMAL LOCATION

Genetic locus: PVRL3 (human) mapping to 3q13.13; Pvrl3 (mouse) mapping to 16 B5.

#### SOURCE

Nectin 3 (C-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Nectin 3 of human origin.

#### PRODUCT

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-14806 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

Nectin 3 (C-19) 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 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffinembedded 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 (C-19) 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: mouse testis extract: sc-2405, Jurkat whole cell lysate: sc-2204 or HL-60 whole cell lysate: sc-2209.

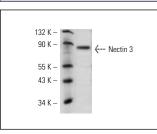
## STORAGE

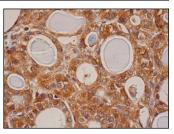
Store at 4° C, \*\*D0 NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

#### **RESEARCH USE**

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

#### DATA





Nectin 3 (C-19): sc-14806. Western blot analysis of Nectin 3 expression in mouse testis extract.

Nectin 3 (C-19): sc-14806. Immunoperoxidase staining of formalin fixed, paraffin-embedded human thyroid gland tissue showing cytoplasmic staining of glandular cells.

#### SELECT PRODUCT CITATIONS

- 1. Chen, Y.M., et al. 2003. Fer kinase/FerT and adherens junction dynamics in the testis: an *in vitro* and *in vivo* study. Biol. Reprod. 69: 656-672.
- Lee, N.P. and Cheng, C.Y. 2003. Regulation of Sertoli cell tight junction dynamics in the rat testis via the nitric oxide synthase/soluble guanylate cyclase/3',5'-cyclic guanosine monophosphate/protein kinase G signaling pathway: an *in vitro* study. Endocrinology 144: 3114-3129.
- 3. Li, M.W., et al. 2006. Tumor necrosis factor  $\alpha$  reversibly disrupts the blood-testis barrier and impairs Sertoli-germ cell adhesion in the seminiferous epithelium of adult rat testes. J. Endocrinol. 190: 313-329.
- Wong, E.W., et al. 2008. PAR-3/PAR-6 polarity complex coordinates apical ectoplasmic specialization and blood-testis barrier restructuring during spermatogenesis. Proc. Natl. Acad. Sci. USA 105: 9657-9662.
- 5 Yoshida, K., et al. 2008. Microphthalmia and lack of vitreous body in *trans*-genic mice expressing the first immunoglobulin-like domain of Nectin 1. Graefes Arch. Clin. Exp. Ophthalmol. 246: 543-549.
- 6. Siu, M.K., et al. 2011. The  $\beta$ 1-integrin-p-FAK-p130Cas-DOCK180-RhoAvinculin is a novel regulatory protein complex at the apical ectoplasmic specialization in adult rat testes. Spermatogenesis 1: 73-86.
- Xiao, X., et al. 2013. c-Yes regulates cell adhesion at the apical ectoplasmic specialization-blood-testis barrier axis via its effects on protein recruitment and distribution. Am. J. Physiol. Endocrinol. Metab. 304: E145-E159.
- 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.

#### MONOS Satisfation Guaranteed

Try Nectin 3 (H-11): sc-271611 or Nectin 3 (N3.81.6): sc-69716, our highly recommended monoclonal alternatives to Nectin 3 (C-19).