

NCAM-L1 (C-20): sc-1508

BACKGROUND

Cell adhesion molecules are a family of closely related cell surface glycoproteins involved in cell-cell interactions during growth and are thought to play an important role in embryogenesis and development. Neuronal cell adhesion molecule (NCAM) expression is observed in a variety of human tumors, including neuroblastomas, rhabdomyosarcomas, Wilm's tumors, Ewing's sarcomas and some primitive myeloid malignancies. The NCAM-L1 adhesion molecule (CD171) plays an important role in axon guidance and cell migration in the nervous system. The presence of NCAM-L1 might contribute to tumor progression by promoting cell adhesion and migration and is known to be expressed by neurons, neuroblastomas and other malignant tumors.

CHROMOSOMAL LOCATION

Genetic locus: L1CAM (human) mapping to Xq28; L1cam (mouse) mapping to X A7.3.

SOURCE

NCAM-L1 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a C-terminal cytoplasmic domain of NCAM-L1 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-1508 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

NCAM-L1 (C-20) is recommended for detection of NCAM-L1 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

NCAM-L1 (C-20) is also recommended for detection of NCAM-L1 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for NCAM-L1 siRNA (h): sc-43172, NCAM-L1 siRNA (m): sc-43173, NCAM-L1 shRNA Plasmid (h): sc-43172-SH, NCAM-L1 shRNA Plasmid (m): sc-43173-SH, NCAM-L1 shRNA (h) Lentiviral Particles: sc-43172-V and NCAM-L1 shRNA (m) Lentiviral Particles: sc-43173-V.

Molecular Weight of NCAM-L1 proteolytically cleaved form: 85 kDa.

Molecular Weight of full length NCAM-L1 isoforms: 140/180/220 kDa.

Positive Controls: F9 cell lysate: sc-2245, IMR-32 cell lysate: sc-2409 or SK-N-MC cell lysate: sc-2237.

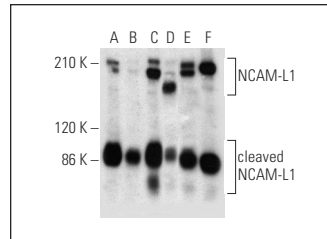
STORAGE

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

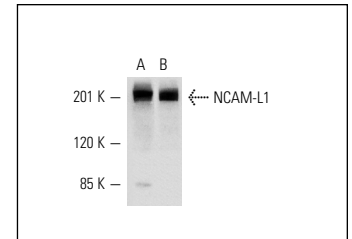
RESEARCH USE

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

DATA



NCAM-L1 (C-20): sc-1508. Western blot analysis of NCAM-L1 expression in IMR-32 (A), SK-N-MC (B), HeLa (C), T98G (D) and SH-SY5Y (E) whole cell lysates and human cerebellum tissue extract (F).



NCAM-L1 (C-20): sc-1508. Western blot analysis of NCAM-L1 expression in F9 (A) and SK-N-MC (B) whole cell lysates.

SELECT PRODUCT CITATIONS

1. Relvas, J.B., et al. 1997. Exogenous genes are expressed in mdx muscle fibres following the implantation of primary mouse skin cells. *Basic Appl. Myol.* 7: 211-219.
2. Kavushansky, A., et al. 2009. Physical stress differs from psychosocial stress in the pattern and time-course of behavioral responses, serum corticosterone and expression of plasticity-related genes in the rat. *Stress* 12: 412-425.
3. Ilin, Y. and Richter-Levin, G. 2009. Enriched environment experience overcomes learning deficits and depressive-like behavior induced by juvenile stress. *PLoS ONE* 4: e4329.
4. Li, Y. and Galileo, D.S. 2010. Soluble L1CAM promotes breast cancer cell adhesion and migration *in vitro*, but not invasion. *Cancer Cell Int.* 10: 34.
5. Dou, X., et al. 2011. Two alcohol binding residues interact across a domain interface of the L1 neural cell adhesion molecule and regulate cell adhesion. *J. Biol. Chem.* 286: 16131-16139.
6. Yang, M., et al. 2011. L1 stimulation of human glioma cell motility correlates with FAK activation. *J. Neurooncol.* 105: 27-44.
7. Tagliavacca, L., et al. 2013. L1CAM and its cell-surface mutants: new mechanisms and effects relevant to the physiology and pathology of neural cells. *J. Neurochem.* 124: 397-409.
8. Dou, X., et al. 2013. Mitogen-activated protein kinase modulates ethanol inhibition of cell adhesion mediated by the L1 neural cell adhesion molecule. *Proc. Natl. Acad. Sci. USA* 110: 5683-5688.


 MONOS
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