

# NCAM-L1 (H-200): sc-15326

## 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.

## REFERENCES

1. Patel, K., et al. 1993. Vase mini-exon usage by NCAM is not restricted to tumours of neuroectodermal origin. *Intl. J. Cancer* 54: 772-777.
2. Jorgensen, O.S. 1995. Neural cell adhesion molecule (NCAM) as a quantitative marker in synaptic remodeling. *Neurochem. Res.* 20: 533-547.

## CHROMOSOMAL LOCATION

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

## SOURCE

NCAM-L1 (H-200) is a rabbit polyclonal antibody raised against amino acids 921-1120 mapping near the C-terminus 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.

## APPLICATIONS

NCAM-L1 (H-200) 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 (H-200) is also recommended for detection of NCAM-L1 in additional species, including canine and bovine.

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 full length isoforms: 140/180/220 kDa.

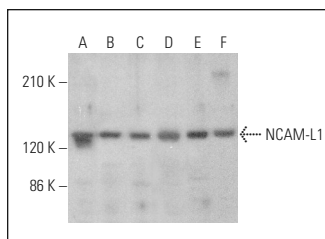
Molecular Weight of NCAM-L1 proteolytically cleaved form: 85 kDa.

Positive Controls: T98G cell lysate: sc-2294, IMR-32 cell lysate: sc-2409 or SK-N-MC cell lysate: sc-2237.

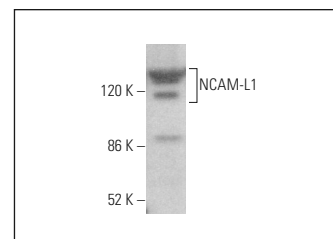
## RECOMMENDED SECONDARY REAGENTS

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.

## DATA



NCAM-L1 (H-200): sc-15326. Western blot analysis of NCAM-L1 expression in Jurkat (A), SK-N-MC (B), T98G (C), Hep G2 (D), RAW 309 Crat 1 (E) and PC-12 (F) whole cell lysates.



NCAM-L1 (H-200): sc-15326. Western blot analysis of NCAM-L1 expression in IMR-32 whole cell lysate.

## SELECT PRODUCT CITATIONS

1. Kettunen E, et al. 2005. L1CAM, INP10, P-cadherin, tPA and ITGB4 over-expression in malignant pleural mesotheliomas revealed by combined use of cDNA and tissue microarray. *Carcinogenesis* 26: 17-25.

## 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.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **NCAM-L1 (D-5): sc-374046** or **NCAM-L1 (C-2): sc-514360**, our highly recommended monoclonal alternatives to NCAM-L1 (H-200). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **NCAM-L1 (D-5): sc-374046**.