

#89861 Store at -20C

## NCAM-L1 (D5N9S) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP, IF-IC	H Mk	Endogenous	220	Rabbit IgG	#P32004	3897

## Product Usage Information

## Application

Western Blotting  
Immunoprecipitation  
Immunofluorescence (Immunocytochemistry)

## Dilution

1:1000  
1:50  
1:400

## Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

## Specificity / Sensitivity

NCAM-L1 (D5N9S) Rabbit mAb recognizes endogenous levels of total NCAM-L1/L1CAM protein.

## Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the carboxy terminus of human NCAM-L1/L1CAM protein.

## Background

Neural cell adhesion molecule L1 (NCAM-L1/L1CAM) is a single pass transmembrane glycoprotein member of the immunoglobulin superfamily, containing six amino-terminal extracellular Ig-like domains followed by five fibronectin type-III domains (1). NCAM-L1 is mainly expressed in the brain, and plays an important role in the developing nervous system, with involvement in neurite fasciculation and outgrowth, myelination, neuronal migration, and neuronal cell adhesion (2). Mutations in the *NCAM-L1* gene cause varying degrees of neurological disease including X-linked hydrocephalus, MASA syndrome, spastic paraplegia type 1, and X-linked corpus callosum agenesis, together known as L1 syndrome (3). Apart from the nervous system, NCAM-L1 is overexpressed in many cancers and supports a poor prognosis by facilitating aggressive tumor growth, metastasis, and chemoresistance (4,5).

## Background References

1. Moos, M. et al. (1988) *Nature* 334, 701-3.
2. Hortsch, M. (1996) *Neuron* 17, 587-93.
3. Christaller, W.A. et al. (2017) *Clin Genet* 91, 115-120.
4. Kiefel, H. et al. (2012) *Cell Adh Migr* 6, 374-84.
5. Jo, D.H. et al. (2017) *Oncotarget* 8, 15441-15452.

## Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

## Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

## Applications Key

**WB:** Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)

## Cross-Reactivity Key

**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster  
**X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse  
**GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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