

Store at
-20C
#44786**NRCAM (D2H1T) Rabbit mAb**

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R	Endogenous	140	Rabbit IgG	#Q92823	4897

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

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

NRCAM (D2H1T) Rabbit mAb recognizes endogenous levels of total human NRCAM protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of the human NRCAM protein.

Background

Neuronal Cell Adhesion Molecule, or NRCAM, belongs to the immunoglobulins Cell Adhesion Molecules (CAM's) superfamily (1). NRCAM, an ankyrin-binding protein, contributes to the neurite outgrowth by providing directional signaling during axonal cone growth (2, 3, 4). Additionally, it plays a role in mediating the interaction between axons and Schwann cells and contributes to the formation and maintenance of Nodes of Ranvier (5, 6, 7, 8). NRCAM also plays an important role in the establishment of dendritic spines in developing cortical neurons (9). NRCAM is expressed in non-neuronal cells, mostly in endothelial cells (10).

Background References

1. Grumet, M. et al. (1991) *J Cell Biol* 113, 1399-412.
2. Lustig, M. et al. (1999) *Dev Biol* 209, 340-51.
3. Dzhashiashvili, Y. et al. (2007) *J Cell Biol* 177, 857-70.
4. Fitzli, D. et al. (2000) *J Cell Biol* 149, 951-68.
5. Feinberg, K. et al. (2010) *Neuron* 65, 490-502.
6. Amor, V. et al. (2014) *J Neurosci* 34, 5089-98.
7. Devaux, J.J. (2014) *Rev Neurol (Paris)* 170, 819-24.
8. Martin, P.M. et al. (2008) *J Neurosci* 28, 6111-7.
9. Mohan, V. et al. (2018) *Cereb Cortex*, .
10. Aitkenhead, M. et al. (2002) *Microvasc Res* 63, 159-71.

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

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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