

Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 140	Source/Isotype: Rabbit	UniProt ID: #Q92823	Entrez-Gene Id: 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 and 50% glycerol. Store at – 20°C. Do not aliquot the antibody				
Specificity/Sensitivity		NRCAM Antibody recognizes endogenous levels of NRCAM protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human NRCAM protein. Antibodies are purified by protein A and peptide affinity chromatography.				
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		 Grumet, M. et al. (1991) <i>J Cell Biol</i> 113, 1399-412. Lustig, M. et al. (1999) <i>Dev Biol</i> 209, 340-51. Dzhashiashvili, Y. et al. (2007) <i>J Cell Biol</i> 177, 857-70. Fitzli, D. et al. (2000) <i>J Cell Biol</i> 149, 951-68. Feinberg, K. et al. (2010) <i>Neuron</i> 65, 490-502. Amor, V. et al. (2014) <i>J Neurosci</i> 34, 5089-98. Devaux, J.J. (2014) <i>Rev Neurol (Paris)</i> 170, 819-24. Martin, P.M. et al. (2008) <i>J Neurosci</i> 28, 6111-7. Mohan, V. et al. (2018) <i>Cereb Cortex</i>, . Aitkenhead, M. et al. (2002) <i>Microvasc Res</i> 63, 159-71. 				
Species Reactivi	ty	Species reactivity is de	etermined by testing	j in at least one approve	ed 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 Ke	y	W: Western Blotting				
Cross-Reactivity	' Key	H: Human M: Mouse I	R: Rat			
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