

NRCAM Recombinant monoclonal antibody

Catalog Number: 84690-1-RR

Basic Information

Catalog Number: 84690-1-RR	GenBank Accession Number: BC098401	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 4897	CloneNo.: 241862G1
Isotype: IgG	UNIPROT ID: Q92823	Recommended Dilutions: WB: 1:5000-1:50000 IHC: 1:50-1:500 IF-P: 1:50-1:500
Immunogen Catalog Number: AG16237	Full Name: neuronal cell adhesion molecule	
	Calculated MW: 1304 aa, 144 kDa	
	Observed MW: 144 kDa	

Applications

Tested Applications: WB, IHC, IF-P, ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : SH-SY5Y cells, mouse brain tissue, rat brain tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : mouse brain tissue, IF-P : mouse brain tissue,

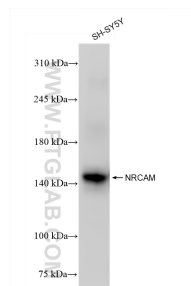
Background Information

Neuronal cell adhesion molecule (NRCAM) is a member of the L1 subfamily of cell adhesion molecules (CAMs) that belong to the immunoglobulin superfamily (PMID: 11329126). NRCAM is a transmembrane protein composed of six Ig-like domains and five fibronectin type-III repeats in the extracellular region, with a highly conserved cytoplasmic tail. It is mainly expressed in the nervous system and is involved in neuron-neuron adhesion and promotes directional signaling during axonal cone growth. NRCAM is also expressed outside the nervous system. Altered expression of NRCAM has been associated with tumor progression in diverse organs (PMID: 22182708).

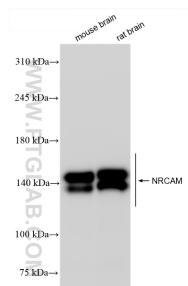
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

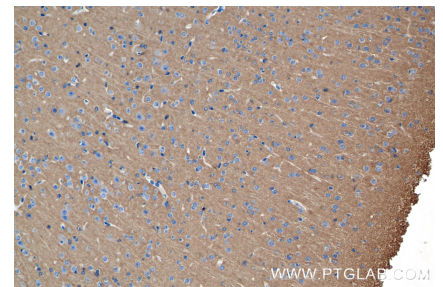
Selected Validation Data



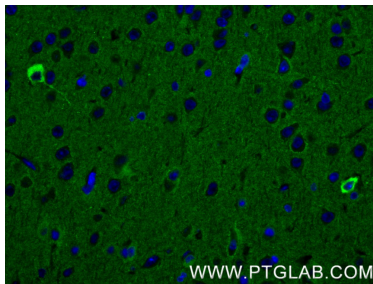
SH-SY5Y cells were subjected to SDS PAGE followed by western blot with 84690-1-RR (NRCAM antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



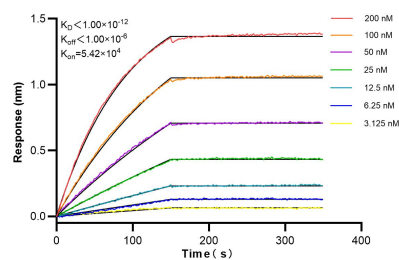
Various lysates were subjected to SDS PAGE followed by western blot with 84690-1-RR (NRCAM antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 84690-1-RR (NRCAM antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using NRCAM antibody (84690-1-RR, Clone: 241862G1) at dilution of 1:200 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 84690-1-RR against Human NRCAM were performed. The affinity constant is below 1 pM.