

For Research Use Only

NECAB2 Recombinant monoclonal antibody

Catalog Number: 88290-1-RR



Basic Information

Catalog Number: 88290-1-RR	GenBank Accession Number: BC016979	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 54550	CloneNo.: 260727H8
Isotype: IgG	UNIPROT ID: Q7Z6G3	Recommended Dilutions: WB: 1:500-1:2000
Immunogen Catalog Number: AG2909	Full Name: N-terminal EF-hand calcium binding protein 2	
	Calculated MW: 386 aa, 42 kDa	
	Observed MW: 37 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : mouse brain tissue, rat brain tissue
Species Specificity: human, mouse, rat	

Background Information

NECAB2 (N-terminal EF-hand calcium-binding protein 2) is a neuronal calcium sensor that functions as a signaling scaffold to modulate G protein-coupled receptor activity. It binds calcium via its N-terminal EF-hand domain and interacts directly with the adenosine A2A receptor (ADORA2A) and metabotropic glutamate receptor 5 (mGluR5), regulating their cell surface expression, internalization, and downstream signaling such as ERK1/2 activation. The protein is predominantly expressed in the brain and spinal cord, where it plays a critical role in pain signaling; its loss in dorsal root ganglia and spinal interneurons significantly accelerates recovery from inflammatory pain hypersensitivity in mice.

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

For technical support and original validation data for this product please contact:

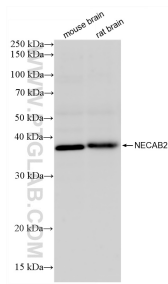
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 88290-1-RR (NECAB2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.