

For Research Use Only

# NECAB2 Recombinant monoclonal antibody, PBS Only (Detector)

Catalog Number: 88290-1-PBS



## Basic Information

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

## Applications

**Tested Applications:**  
WB, Cytometric bead array, Indirect ELISA

**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 -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS only, pH7.3

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

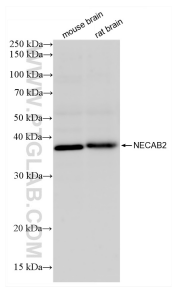
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

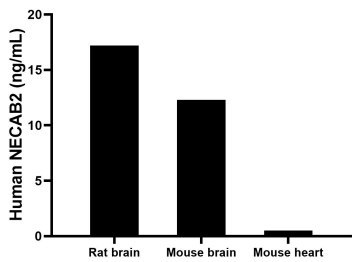
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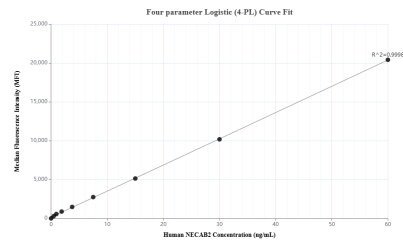
## Selected Validation Data



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. This data was developed using the same antibody clone with 88290-1-PBS in a different storage buffer formulation.



The mean NECAB2 concentration was determined to be 17.2 ng/mL in rat brain tissue extract based on a 1.0 mg/mL extract load, 12.3 ng/mL in mouse brain tissue extract based on a 1.0 mg/mL extract load, 0.5 ng/mL in mouse heart tissue extract based on a 1.0 mg/mL extract load.



Cytometric bead array standard curve of MP03437-1, NECAB2 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 88290-2-PBS. Detection antibody: 88290-1-PBS. Standard: Ag2909. Range: 0.469-60 ng/mL.