

For Research Use Only

KCNV1 Recombinant monoclonal antibody

Catalog Number: 85153-3-RR



Basic Information

Catalog Number:

85153-3-RR

Concentration:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3376

GenBank Accession Number:

BC028739

GeneID (NCBI):

27012

UNIPROT ID:

Q6PIU1

Full Name:

potassium channel, subfamily V, member 1

Calculated MW:

500 aa, 56 kDa

Observed MW:

50 kDa

Purification Method:

Protein A purification

CloneNo.:

242865E3

Recommended Dilutions:

WB: 1:2000-1:10000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : mouse brain tissue, U-87 MG cells, rat brain tissue, fetal human brain tissue, C6 cells

Background Information

Potassium voltage-gated channel subfamily V member 1 (KCNV1, also known as Kv8.1) is a voltage-gated potassium channel that plays a role in the repolarization phase of the action potential (PMID: 39003683). It is involved in regulating neuronal excitability and is essential for maintaining normal electrical signaling in the nervous system (PMID: 38911266). The function of KCNV1 may also include inhibiting specific types of outwardly rectifying potassium channels (PMID: 8670833).

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:

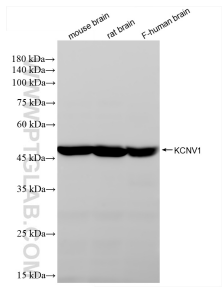
T: 4006900926

E: Proteintech-CN@ptglab.com

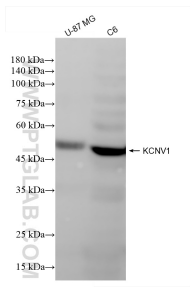
W: ptgcn.com

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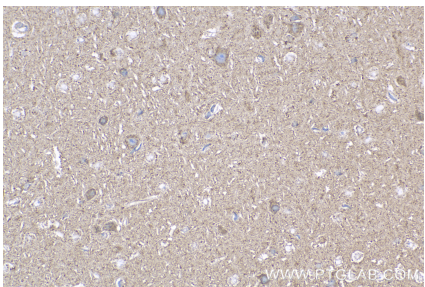
Selected Validation Data



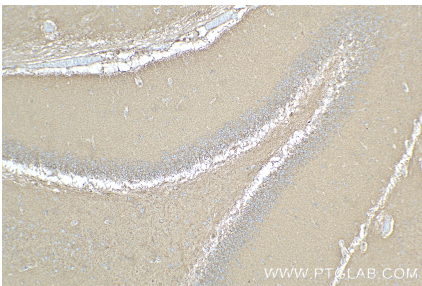
Various lysates were subjected to SDS PAGE followed by western blot with 85153-3-RR (KCNV1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



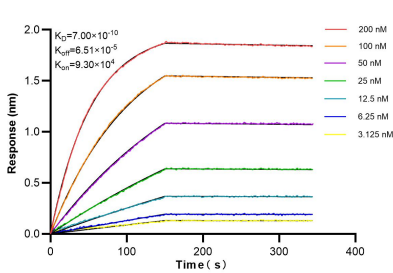
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Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 85153-3-RR (KCNV1 antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 85153-3-RR (KCNV1 antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 85153-3-RR against Human KCNV1 were performed. The affinity constant is 0.70 nM.