For Research Use Only

KCNV1 Recombinant antibody, PBS Only (Capture)

Catalog Number:85153-3-PBS

proteintech®
Antibodies | ELISA kits | Proteins
Uni-rAb
www.ptglab.com

Basic Information

Catalog Number:
85153-3-PBS

Size:
100ug , Concentration: 1000 μg/ml by Nanodrop;

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

Applications

Tested Applications:
WB, Cytometric bead array, Indirect ELISA

Species Specificity:
human, mouse, rat

Product Information

85153-3-PBS targets KCNV1 as part of a matched antibody pair:

MP01872-1: 85153-3-PBS capture and 85153-2-PBS detection (validated in Cytometric bead array)

MP01872-2: 85153-3-PBS capture and 85153-1-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications.Antibody use should be optimized by the end user for each application and assay.

Background Information

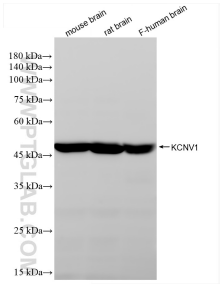
Potassium voltage-gated channel subfamily V member 1 (KCNV1, also known as Kv8.1) is a voltage-gated potassium channel that plays a role in the repolarization phase of the action potential (PMID: 39003683). It is involved in regulating neuronal excitability and is essential for maintaining normal electrical 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

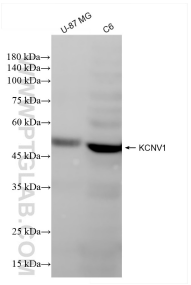
Storage:
Store at -80°C.
Storage Buffer:
PBS Only

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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. This data was developed using the same antibody clone with 85153-3-PBS in a different storage buffer formulation.



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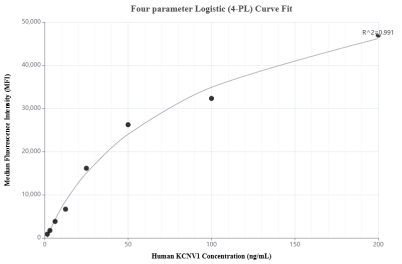
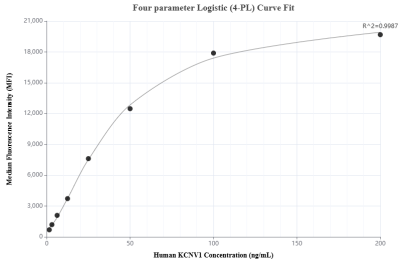
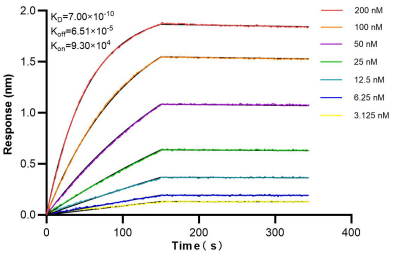


Cytometric bead array standard curve of MP01872-1, KCNV1 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 85153-3-PBS. Detection antibody: 85153-2-PBS. Standard: Ag3376. Range: 1.563-200 ng/mL.



Cytometric bead array standard curve of MP01872-2, KCNV1 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 85153-3-PBS. Detection antibody: 85153-1-PBS. Standard: Ag3376. Range: 1.563-200 ng/mL.



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