

For Research Use Only

KCNIP2 Recombinant monoclonal antibody, PBS Only (Capture)

Catalog Number: 86696-1-PBS



Basic Information

Catalog Number: 86696-1-PBS	GenBank Accession Number: BC034685	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 30819	CloneNo.: 251560C3
Source: Rabbit	UNIPROT ID: Q9NS61	
Isotype: IgG	Full Name: Kv channel interacting protein 2	
Immunogen Catalog Number: AG14111	Calculated MW: 270 aa, 31 kDa	
	Observed MW: 31-35 kDa	

Applications

Tested Applications:
WB, Sandwich ELISA, Indirect ELISA

Species Specificity:
human, mouse, rat

Product Information

86696-1-PBS targets KCNIP2 as part of a matched antibody pair:

MP02717-1: 86696-1-PBS capture and 86696-2-PBS detection (validated in Sandwich ELISA)

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

KCNIP2 is a member of the family of voltage-gated potassium (Kv) channel-interacting proteins (KCNIPs), which belongs to the recoverin branch of the EF-hand superfamily. Members of the KCNIP family are small calcium binding proteins. They all have EF-hand-like domains, and differ from each other in the N-terminus. They are integral subunit components of native Kv4 channel complexes. They may regulate A-type currents, and hence neuronal excitability, in response to changes in intracellular calcium. Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified from this gene.

Storage

Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

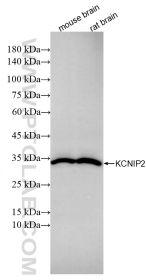
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

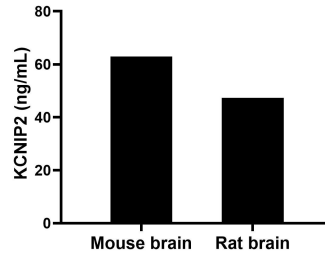
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

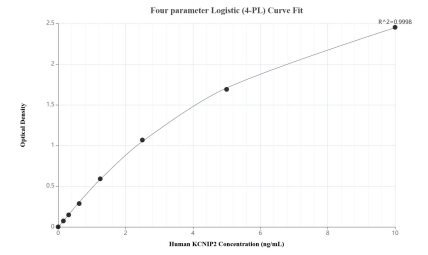
Selected Validation Data



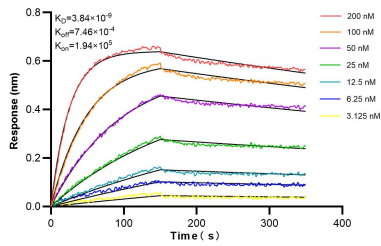
Various lysates were subjected to SDS PAGE followed by western blot with 86696-1-RR (KCNIP2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86696-1-PBS in a different storage buffer formulation.



The mean KCNIP2 concentration was determined to be 62.92 ng/mL in mouse brain extract based on a 7.00 mg/mL extract load and 47.26 ng/mL in rat brain extract based on a 8.20 mg/mL extract load.



Sandwich ELISA standard curve of MP02717-1, Human KCNIP2 Recombinant Matched Antibody Pair - PBS only. 86696-1-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag14111. 86696-2-PBS was HRP conjugated as the detection antibody. Range: 0.156-10 ng/mL.



Biolayer interferometry (BLI) kinetic assays of 86696-1-RR against Human KCNIP2 were performed. The affinity constant is 3.84 nM.