

For Research Use Only

KCNIP3 Recombinant monoclonal antibody

Catalog Number: 86579-1-RR



Basic Information

Catalog Number:	86579-1-RR	GenBank Accession Number:	BC012850	Purification Method:	Protein A purification
Size:	100ul, Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI):	30818	CloneNo.:	251515A1
Source:	Rabbit	UNIPROT ID:	Q9Y2W7	Recommended Dilutions:	WB: 1:2000-1:10000
Isotype:	IgG	Full Name:	Kv channel interacting protein 3, calsenilin		
Immunogen Catalog Number:	AG2665	Calculated MW:	256 aa, 29 kDa		
		Observed MW:	29 kDa		

Applications

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

Background Information

KCNIP3 also known as Calsenilin, CSEN, DREAM, or KCHIP3, is a protein-coding gene located on human chromosome 2q11.1. It encodes a small calcium-binding protein belonging to the recoverin branch of the EF-hand superfamily. KCNIP3 is an integral subunit of native Kv4 channel complexes, regulating A-type potassium currents in response to intracellular calcium changes, thereby modulating neuronal excitability. KCNIP3 interacts with presenilin 1 (PSEN1) and presenilin 2 (PSEN2), influencing γ -secretase activity and β -amyloid formation, potentially linking it to Alzheimer's disease pathology.

Storage

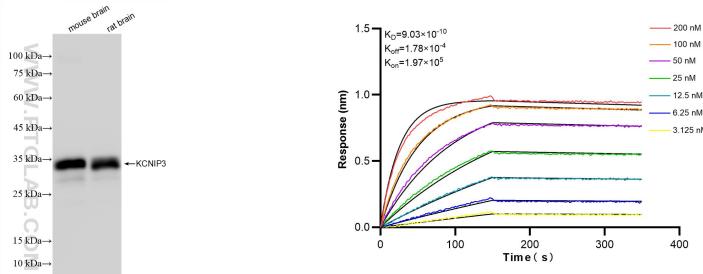
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

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
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86579-1-RR (KCNIP3 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.

Biolayer interferometry (BLI) kinetic assays of 86579-1-RR against Human KCNIP3 were performed. The affinity constant is 0.903 nM.