

For Research Use Only

# KCNIP3 Recombinant monoclonal antibody, PBS Only

Catalog Number: 86579-1-PBS



## Basic Information

Catalog Number:	86579-1-PBS	GenBank Accession Number:	BC012850	Purification Method:	Protein A purification
Size:	1000ug, Concentration: 1 mg/ml by Nanodrop;	GenID (NCBI):	30818	CloneNo.:	251515A1
Source:	Rabbit	UNIPROT ID:	Q9Y2W7	Full Name:	Kv channel interacting protein 3, calsenilin
Isotype:	IgG	Calculated MW:	256 aa, 29 kDa	Observed MW:	29 kDa
Immunogen Catalog Number:	AG2665				

## Applications

### Tested Applications:

WB, Indirect ELISA

### Species Specificity:

human, mouse, rat, pig

## 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  $\gamma$ -secretase activity and  $\beta$ -amyloid formation, potentially linking it to Alzheimer's disease pathology.

## Storage

### Storage:

Store at -80°C.

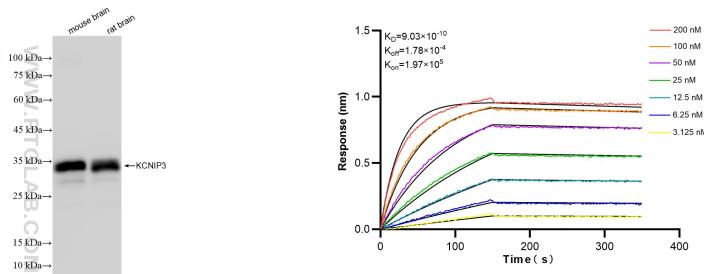
### Storage Buffer:

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  
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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. This data was developed using the same antibody clone with 86579-1-PBS in a different storage buffer formulation.

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