

For Research Use Only

BRSK1 Recombinant antibody, PBS Only (Detector)

Catalog Number: 86462-1-PBS



Basic Information

Catalog Number: 86462-1-PBS	GenBank Accession Number: BC016681	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 84446	CloneNo.: 251341A11
Source: Rabbit	UNIPROT ID: Q8TDC3	
Isotype: IgG	Full Name: BR serine/threonine kinase 1	
Immunogen Catalog Number: AG3357	Calculated MW: 87 kDa	
	Observed MW: 85-90 kDa	

Applications

Tested Applications:
WB, IHC, Cytometric bead array, Indirect ELISA, Sample test

Species Specificity:
human, mouse, rat

Product Information

86462-1-PBS targets BRSK1 as part of a matched antibody pair:

MP02463-1: 86462-2-PBS capture and 86462-1-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

BRSK1 (Brain-specific serine/threonine-protein kinase 1) is also named as KIAA1811, SAD1, SADB and belongs to the SNF1 subfamily. BRSKs are crucial for establishing neuronal polarity, and BRSK1 has also been shown to regulate neurotransmitter release presynaptically. BRSK1 is a serine-threonine kinases specifically expressed in the brain, and activated by LKB1-mediated phosphorylation of a threonine residue at their T-loop. (PMID:22020259). It has 3 isoforms produced by alternative splicing.

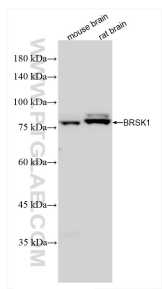
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

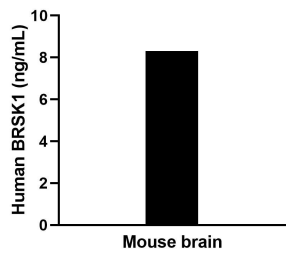
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

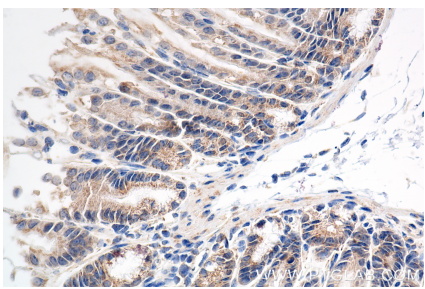
Selected Validation Data



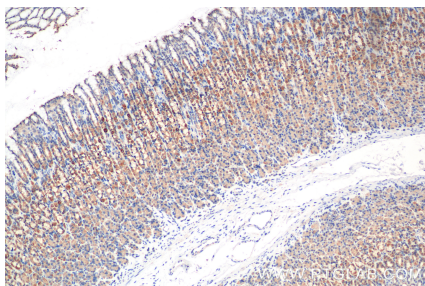
Various lysates were subjected to SDS PAGE followed by western blot with 86462-1-RR (BRSK1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86462-1-PBS in a different storage buffer formulation.



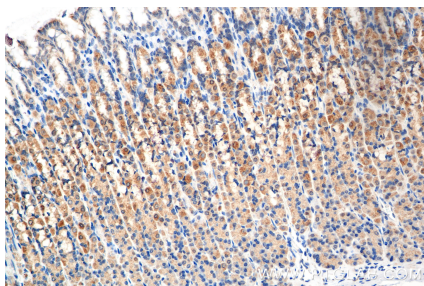
The mean BRSK1 concentration was determined to be 8.4 ng/mL in Mouse brain tissue extract based on a 7.0 mg/mL extract load.



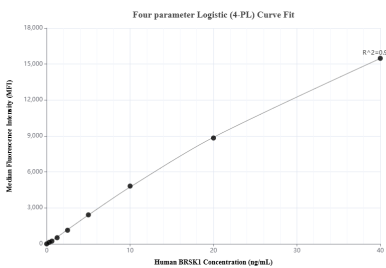
Immunohistochemical analysis of paraffin-embedded mouse stomach tissue slide using 86462-1-RR (BRSK1 antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 86462-1-PBS in a different storage buffer formulation.



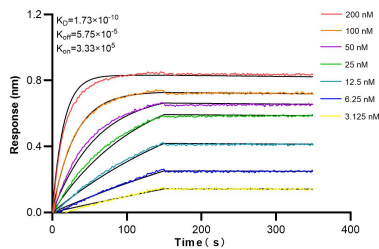
Immunohistochemical analysis of paraffin-embedded rat stomach tissue slide using 86462-1-RR (BRSK1 antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 86462-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded rat stomach tissue slide using 86462-1-RR (BRSK1 antibody) at dilution of 1:800 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 86462-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP02463-1, BRSK1 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 86462-2-PBS. Detection antibody: 86462-1-PBS. Standard: Ag3357. Range: 0.312-40 ng/mL.



Biolayer interferometry (BLI) kinetic assays of 86462-1-RR against Human BRSK1 were performed. The affinity constant is 0.173 nM.