

STK39 Recombinant antibody

Catalog Number: 83081-2-RR

Basic Information

Catalog Number: 83081-2-RR	GenBank Accession Number: BC166614	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 27347	CloneNo.: 230382G9
Source: Rabbit	UNIPROT ID: Q9UEW8	Recommended Dilutions: WB 1:2000-1:10000 IF-P 1:50-1:500 IF/ICC 1:250-1:1000
Isotype: IgG	Full Name: serine threonine kinase 39 (STE20/SPS1 homolog, yeast)	
Immunogen Catalog Number: AG34503	Calculated MW: 59 kDa	
	Observed MW: 62 kDa	

Applications

Tested Applications: WB, IF/ICC, IF-P, ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : Jurkat cells, MCF-7 cells, SH-SY5Y cells, HEK-293T cells, HepG2 cells, rat brain tissue
	IF-P : mouse brain tissue,
	IF/ICC : NIH/3T3 cells,

Background Information

STK39 (Serine/Threonine Kinase 39) is a proline- and alanine-rich Ste20-related kinase (also named as SPAK), which is composed of a short N-terminal proline and alanine repeats (PAPA box), a kinase catalytic domain and a C-terminal regulatory domain (PMID: 16382158). In mammals, STK39 plays an important role in ion homeostasis by regulating the cation chloride cotransporters' activities, which is crucial for the modulation of renal salt transport and blood pressure (PMID: 33500714). Notably, STK39 is also implicated in the regulation of tumor cell proliferation, migration, and invasion in multiple cancers, including osteosarcoma and cervical cancer (PMID: 34335956).

Storage

Storage:
Store at -20°C. Stable for one year after shipment.

Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

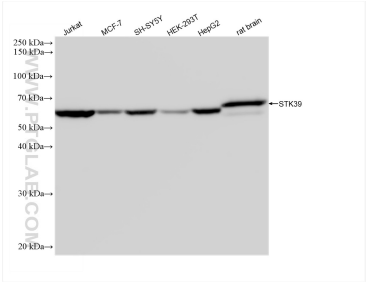
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

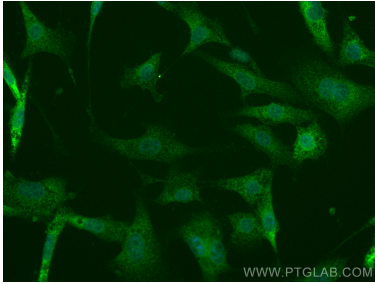
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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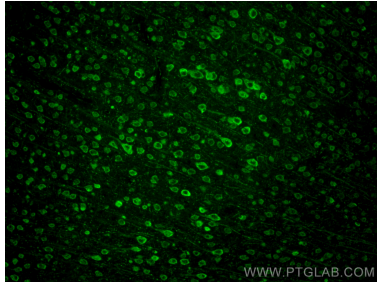
Selected Validation Data



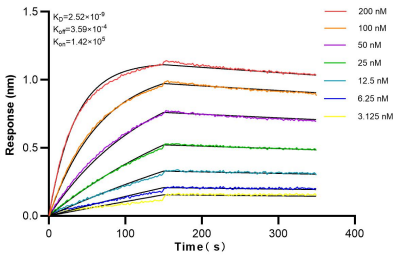
Various lysates were subjected to SDS PAGE followed by western blot with 83081-2-RR (STK39 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed NIH/3T3 cells using STK39 antibody (83081-2-RR, Clone: 230382G9) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using STK39 antibody (83081-2-RR, Clone: 230382G9) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 83081-2-RR against Human STK39 were performed. The affinity constant is 2.52 nM.