For Research Use Only STK39 Recombinant antibody, PBS Only proteintech® (Capture) www.ptglab.com

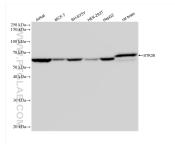
Catalog Number:83081-2-PBS

Basic Information	Catalog Number: 83081-2-PBS	GenBank Accession Number: BC 166614	Purification Method: Protein A purification		
	Size: 100ug , Concentration: 1mg/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG34503	GenelD (NCBI):	CloneNo.:		
		27347 230382G9 UNIPROT ID: Q9UEW8	230382G9		
			Full Name: serine threonine kinase 39 (STE20/SPS1 homolog, yeast) Calculated MW: 59 kDa		
		Observed MW: 62 kDa			
		Applications			Tested Applications: WB, IF/ICC, IF-P, Cytometric bead ar ELISA, Indirect ELISA, Sample test
			Species Specificity: human, mouse, rat		
		Product Information	83081-2-PBS targets STK39 as part o	f a matched antibody pair:	
MP00106-2: 83081-2-PBS capture and 83081-4-PBS detection (validated in Cytometric bead array)					
MP00106-3: 83081-2-PBS capture and 83081-1-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.					
	ss cytometry, and multiplex imaging		pplications including: ELISAs, multiplex g applications.Antibody use should be		
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 mammalians, 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 -80°C. Storage Buffer: 100% PBS pH 7.3				

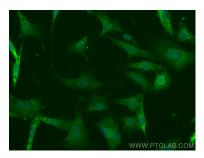
For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com

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

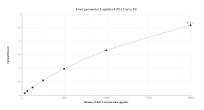
## Selected Validation Data



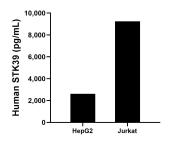
Various lysates were subjected to SDS PAGE followed by western blot with 83081-2-RR (STK39 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83081-2-PBS in a different storage buffer formulation.



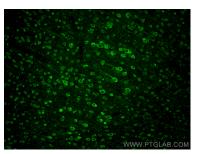
Immunofluorescent analysis of (4% PFA) fixed NIH/3T3 cells using STK39 antibody (83081-2-RR, Clone: 230382G9) at dilution of 1:500 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 83081-2-PBS in a different storage buffer formulation.



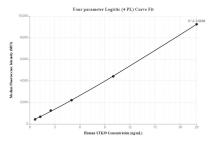
Sandwich ELISA standard curve of MP00106-3, Human STK39 Recombinant Matched Antibody Pair - PBS only. 83081-2-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag34503. 83081-1-PBS was HRP conjugated as the detection antibody. Range: 31.3-2000 pg/mL



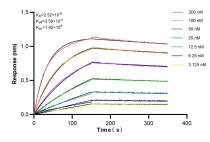
The mean STK39 concentration was determined to be 2,623.5 pg/mL in HepG2 cell extract based on a 4.2 mg/mL extract load and 9,245.2 pg/mL in Jurkat cell extract based on a 4.6 mg/mL extract load.



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). This data was developed using the same antibody clone with 83081-2-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00106-2, STK39 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83081-2-PBS. Detection antibody: 83081-4-PBS. Standard: Ag34503. Range: 0.625-20 ng/mL



Biolayer interferometry (BL1) kinetic assays of 83081-2-RR against Human STK39 were performed. The affinity constant is 2.52 nM.