

For Research Use Only

STK3/MST2 Recombinant monoclonal antibody

Catalog Number: 87269-1-RR



Basic Information

Catalog Number: 87269-1-RR	GenBank Accession Number: BC010640	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 6788	CloneNo.: 25219488
Source: Rabbit	UNIPROT ID: Q13188	Recommended Dilutions: WB: 1:5000-1:50000
Isotype: IgG	Full Name: serine/threonine kinase 3 (STE20 homolog, yeast)	
Immunogen Catalog Number: AG2741	Calculated MW: 491 aa, 56 kDa	
	Observed MW: 56-63 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : HeLa cells,
Species Specificity: human	

Background Information

The protein encoded by STK3 gene is a key serine/threonine kinase, and its protein product can be cleaved by caspase in the process of apoptosis, and the inhibitory C-terminal part is removed, and the N-terminal part is transferred to the nucleus to form homodimer, which becomes an active kinase and promotes chromatin condensation in the process of apoptosis. STK3 is one of the core components of Hippo signaling pathway, which plays a key role in controlling cell proliferation, apoptosis and tissue growth. In the Hippo signaling pathway, STK3 forms a cascade reaction with STK4, LATS1/2 and other kinases, phosphorylates and activates LATS1/2, and then inhibits transcription coactivators YAP and TAZ, thus controlling cell growth and preventing cancer progression. STK3 and STK4(MST1) are similar in structure and function. They have conserved amino-terminal kinase domains, carboxyl-terminal regulatory domains and interaction domains.

Storage

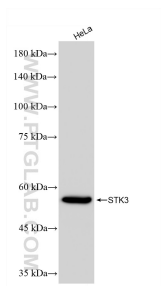
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

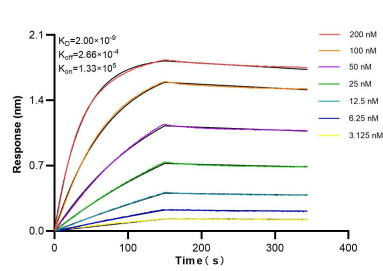
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 87269-1-RR (STK3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 87269-1-RR against Human STK3/MST2 were performed. The affinity constant is 2.00 nM.