

MST2 Polyclonal Antibody

Catalog NumberPA5-28567

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human, Mouse
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000
Type	Antibody	Western Blot (WB)	1:1,000-1:10,000
Immunogen	Recombinant fragment corresponding to a region within amino acids 1 and 269 of Human STK3	Immunocytochemistry (ICC/IF)	1:100-1:1,000
Conjugate	Unconjugated	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Form	Liquid		
Concentration	0.84 mg/mL		
Purification	Antigen affinity chromatography		
Storage buffer	0.1M tris glycine, pH 7, with 10% glycerol		
Contains	0.01% thimerosal		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

**Product specific information**

Recommended positive controls: 293T transfected STK3, , NIH-3T3, JC. Predicted reactivity: Mouse (99%), Rat (99%), Zebrafish (98%), Xenopus laevis (98%), Chicken (99%), Rhesus Monkey (99%), Bovine (99%). Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

**Background/Target Information**

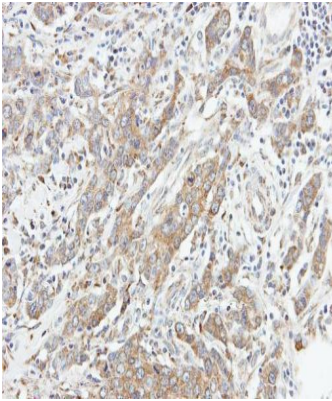
STK3 (MST2) is a STE kinase family member that acts upstream of the MAP kinase signaling pathways, and is known to be activated by the proapoptotic stimuli staurosporine and FAS ligand. STK3 is a stress-activated, pro-apoptotic kinase which, following caspase-cleavage, enters the nucleus and induces chromatin condensation followed by internucleosomal DNA fragmentation. It is a key component of the Hippo signaling pathway which plays a pivotal role in organ size control and tumor suppression by restricting proliferation and promoting apoptosis. The core of this pathway is composed of a kinase cascade wherein STK3/MST2 and STK4/MST1, in complex with its regulatory protein SAV1, phosphorylates and activates LATS1 /2 in complex with its regulatory protein MOB1, which in turn phosphorylates and inactivates YAP1 oncoprotein and WWTR1/TAZ. Phosphorylation of YAP1 by LATS2 inhibits its translocation into the nucleus to regulate cellular genes important for cell proliferation, cell death, and cell migration. STK3 /MST2 and STK4/MST1 are required to repress proliferation of mature hepatocytes, to prevent activation of facultative adult liver stem cells (oval cells), and to inhibit tumor formation.

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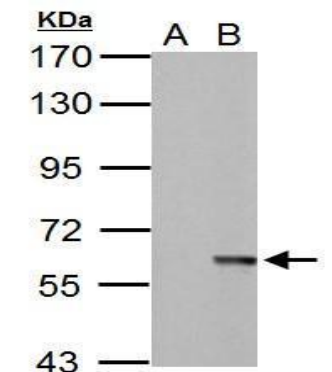
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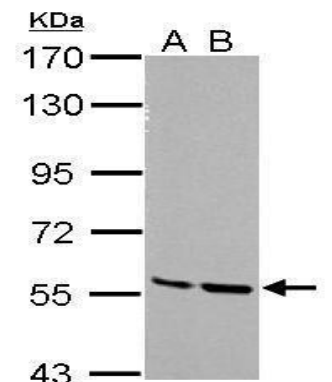
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**MST2 Antibody (PA5-28567) in IHC (P)**  
Immunohistochemical analysis of paraffin-embedded human gastric cancer, using STK3 (Product # PA5-28567) antibody at 1:100 dilution. Antigen Retrieval: EDTA based buffer, pH 8.0, 15 min.



**MST2 Antibody (PA5-28567) in WB**  
Western Blot using MST2 Polyclonal Antibody (Product # PA5-28567). Sample (30 µg of whole cell lysate). Lane A: Non-transfected 293T lysates. Lane B: STK3 transfected 293T lysates. 7.5% SDS PAGE. MST2 Polyclonal Antibody (Product # PA5-28567) diluted at 1:5,000.



**MST2 Antibody (PA5-28567) in WB**  
Western Blot using MST2 Polyclonal Antibody (Product # PA5-28567). Sample (30 µg of whole cell lysate). Lane A: NIH-3T3. Lane B: JC. 7.5% SDS PAGE. MST2 Polyclonal Antibody (Product # PA5-28567) diluted at 1:5,000.

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