For Research Use Only

Phospho-MST1 (Thr183)/MST2 (Thr180) Polyclonal antibody

Catalog Number:28953-1-AP 7 Publications

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Basic Information

Catalog Number:
28953-1-AP

Concentration:
400 μg/ml

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
BC005231

GeneID (NCBI):
6789

UNIPROT ID:
Q13043

Full Name:
serine/threonine kinase 4

Calculated MW:
56 kDa

Observed MW:
52-56 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000

Applications

Tested Applications:
WB, ELISA

Cited Applications:
WB

Species Specificity:
Human

Cited Species:
human, mouse

Positive Controls:

WB : Staurosporine treated Ramos cells,

Background Information

Mammalian STE20-like serine-threonine kinase MST1, encoded by the STK4 gene, is a multifunctional protein. MST1 and its closest paralogs MST2 (encoded by the STK3 gene), MST3, and MST4 are members of the Class II Germinal Center Family of Protein Kinases. MST1/2 and LATS1/2 (large tumor suppressor 1 and 2) are core kinase components of the Hippo tumor suppressor pathway in mammalians . In the conventional Hippo pathway, the MST1/2 and LATS1/2 signaling cascade phosphorylates and inactivates the transcriptional coactivator YAP1 (yes associated protein 1) and its close paralog WWTR1]. YAP1 and WWTR1 do not have DNA binding domains and they exert their biological outputs, such as cell proliferation and survival, by interacting with the TEAD1-4 transcription factors. Lines of evidence have indicated that dysregulation or loss of STK4/Hippo signaling is linked to developmental disorders and carcinogenesis with poor prognosis. MST1 is a stress-induced kinase and it can be activated in response to cell-death inducers. Autophosphorylation of MST1 at Thr183 (Thr180 in MST2) in the activation loop is a key activation mechanism for MST1/2 because phosphorylation of Thr183/180 causes the cleavage of MST1 by caspases under apoptotic conditions.

Notable Publications

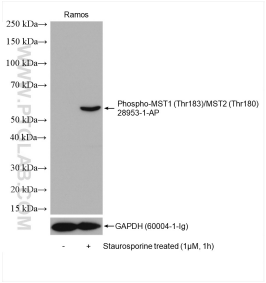
Author	Pubmed ID	Journal	Application
Ning Nan	39617260	Toxicol Appl Pharmacol	WB
Michael R Weaver	39554194	bioRxiv	WB
Haihui Yu	38824968	Biochem Pharmacol	

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

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

Selected Validation Data



Non-treated Ramos and Staurosporine treated Ramos cells were subjected to SDS PAGE followed by western blot with 28953-1-AP (Phospho-MST1 (Thr183)/MST2 (Thr180) antibody) at dilution of 1:1000 incubated at 4℃ overnight. The membrane was stripped and re-blotted with GAPDH antibody as loading control.