For Research Use Only

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

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Catalog Number: 28953-1-AP 7 Publications

#### **Basic Information**

Catalog Number:

GenBank Accession Number:

**Purification Method:** Antigen affinity purification

28953-1-AP

GeneID (NCBI):

BC005231

Recommended Dilutions:

100ul , Concentration: 400 ug/ml by

Rabbit

WB 1:500-1:2000

Nanodrop: Source:

**UNIPROT ID:** 

Q13043 Full Name:

serine/threonine kinase 4

Isotype: IgG

Calculated MW:

56 kDa

Observed MW:

52-56 kDa

## **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 the serine-threonine kinase MST1 are serine-threonine kinase MST1, encoded by the STK4 gene, is a multifunctional protein. MST1 are serine-threonine kinase MST1, encoded by the STK4 gene, is a multifunctional protein. MST1 are serine-threonine kinase MST1, encoded by the STK4 gene, is a multifunctional protein. MST1 are serine-threonine kinase MST1, encoded by the STK4 gene, is a multifunctional protein. MST1 are serine-threonine kinase MST1, encoded by the STK4 gene, is a multifunctional protein. MST1 are serine-threonine kinase MST1, encoded by the STK4 gene, is a multifunctional protein. MST1 are serine-threonine kinase MST1, encoded by the STK4 gene, is a multifunctional protein. MST1 are serine-threonine kinase MST1, encoded by the STK4 gene, is a multifunctional protein. MST1 are serine-threonine kinase MST1, encoded by the STK4 gene, is a multifunctional protein. MST1 are serine-threonine kinase MST1, encoded by the STK4 gene, is a multifunctional protein kinase MST1, encoded by the STK4 gene, is a multifunctional protein kinase MST1, encoded by the STK4 gene, is a multifunctional protein kinase MST1, encoded by the STK4 gene, is a multifunction kinase MST1, encoded by the STK4 gene, is a multifunction kinase MST1, encoded by the STK4 gene, is a multifunction kinase MST1, encoded by the STK4 gene, is a multifunction kinase MST1, encoded by the STK4 gene, is a multifunction kinase MST1, encoded by the STK4 gene, is a multifunction kinase MST1, encoded by the STK4 gene, is a multifunction kinase MST1, encoded by the STK4 gene, is a multifunction kinase MST1, encoded by the STK4 gene, is a multifunction kinase MST1, encoded by the STK4 gene, is a multifunction kinase MST1, encoded by the STK4 gene, is a multifunction kinase MST1, encoded by the STK4 gene, is a multifunction kinase MST1, encoded by the STK4 gene, is a multifunction kinase MST1, encoded by the STK4 gene, is a multifunction kinand 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

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

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

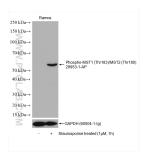
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## Selected Validation Data



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°C overnight. The membrane was stripped and re-blotted with GAPDH antibody as loading control.