For Research Use Only

MST1 Monoclonal antibody, PBS Only

Catalog Number: 66663-1-PBS

Featured Product



Basic Information

Catalog Number:

66663-1-PBS

Size: 1 mg/ml Source:

Mouse Isotype: IgG2a

Immunogen Catalog Number:

AG17738

Observed MW:

52-56 kDa

487 aa, 56 kDa

BC093768

6789

GeneID (NCBI):

UNIPROT ID:

Q13043 Full Name:

GenBank Accession Number:

serine/threonine kinase 4 Calculated MW:

Purification Method: Protein A purification

CloneNo.:

2G11C1

Applications

Tested Applications: WB,Indirect ELISA,IHC,IF Species Specificity:

Human, Mouse, Rat

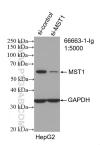
Background Information

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 multifunction of the serine-threonine kinase MST1, encoded by the STK4 gene, is a multifunction of the serine-threonine kinase MST1, encoded by the STK4 gene, is a multifunction of the serine-threonine kinase MST1, encoded by the STK4 gene, is a multifunction of the serine-threonine kinase MST1, encoded by the STK4 gene, is a multifunction of the serine-threonine kinase MST1, encoded by the serine kinase MST1, encoded byand its closest paralogs MST2 (encoded by the STK3 gene), MST3, and MST4 are members of the Class II Germinal Center Family of Protein Kinases . STK3/4 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 STK3/4 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. STK4 is a stress-induced kinase and it can be activated in response to cell-death inducers. Autophosphorylation of STK4 at Thr183 (Thr180 in STK3) in the activation loop is a key activation mechanism for STK4/3 because phosphorylation of Thr183/180 causes the cleavage of STK4 by caspases under apoptotic conditions. The caspase-cleavage results in a more active STK4 protein (STK4-N, an aminoterminally truncated STK4), which localizes into the nucleus and induces apoptosis through histone modifications and chromatin condensations.

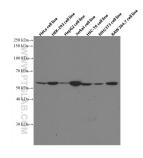
Storage

Storage: Store at -80°C. Storage Buffer: PBS Only

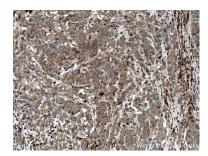
Selected Validation Data



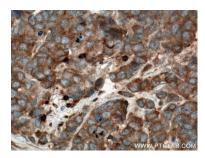
WB result of MST1 antibody (66663-1-lg; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-MST1 transfected HepG2 cells. This data was developed using the same antibody clone with 66663-1-PBS in a different storage buffer formulation.



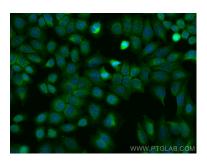
Various lysates were subjected to SDS PAGE followed by western blot with 66663-1-lg (MST1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66663-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffinembedded human prostate cancer tissue slide using 66663-1-1g (MST1 antibody) at dilution of 1:500 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66663-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffinembedded human prostate cancer tissue slide using 66663-1-1g (MST1 antibody) at dilution of 1:500 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66663-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed PC-3 cells using MST1 antibody (66663-1-Ig, Clone: 2G11C1) at dilution of 1:400 and Coralite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 66663-1-PBS in a different storage buffer formulation