Product Datasheet

Mst1 (Phospho-Thr183) Antibody

Catalog No: #12144

Package Size: #12144-1 50ul #12144-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

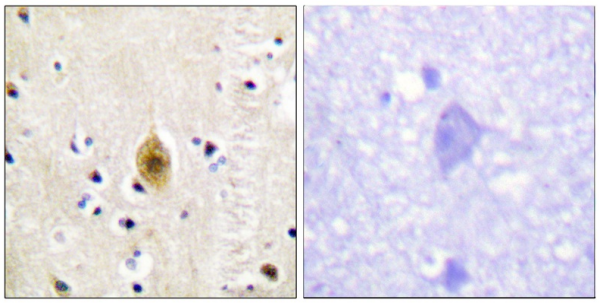
Product Name	Mst1 (Phospho-Thr183) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.
Applications	WB IHC
Species Reactivity	Hu Ms
Specificity	The antibody detects endogenous levels of Mst1 only when phosphorylated at threonine 183.
Immunogen Description	Peptide sequence around phosphorylation site of threonine 183 (R-N-T(p)-V-I) derived from Human Mst1.
Target Name	Mst1
Modification	Phospho
Other Names	EC 2.7.11.1; MST-1; Mammalian STE20-like protein kinase 1; STE20-like kinase MST1; STK4; Serine/threonine protein kinase 4; Serine/threonine protein kinase Krs-2; kinase MST1; serine/threonine kinase 4; STE20-like kinase MST1; Yeast Sps1/Ste20-related kin
Accession No.	Swiss-Prot#:Q13043;NCBI Gene#:6789
Uniprot	Q13043
GeneID	6789;
SDS-PAGE MW	60kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

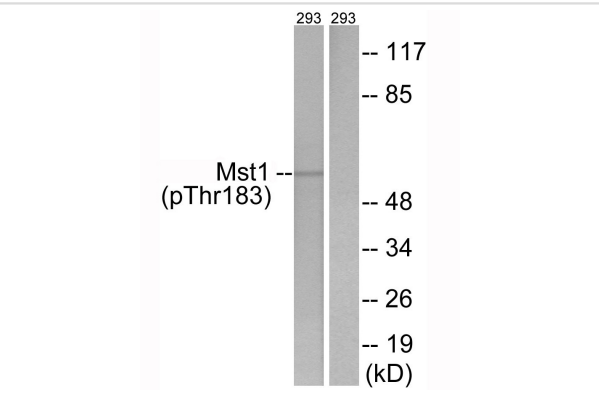
Western blotting: 1:500~1:3000

Immunohistochemistry: 1:50~1:100

Images



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using Mst1 (Phospho-Thr183) antibody #12144. The picture on the right is treated with the synthesized peptide.



Western blot analysis of extracts from 293 cells, treated with H2O2 (100uM, 15mins), using Mst1 (Phospho-Thr183) antibody #12144. The lane on the right is treated with the synthesized peptide.

Background

Stress-activated, pro-apoptotic kinase which, following caspase-cleavage, enters the nucleus and induces chromatin condensation followed by internucleosomal DNA fragmentation. 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 By similarity.

Note: This product is for in vitro research use only