

## Anti-Phospho-MST1 (Thr183) Polyclonal Antibody 2

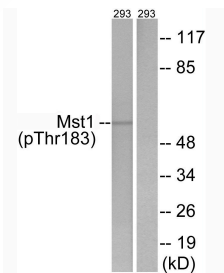
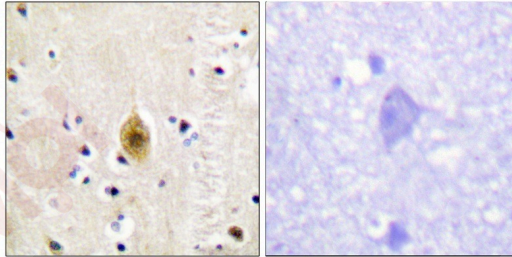
### Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse
Conjugation:	Unconjugated
Molecular Weight:	Actual: 60 kDa.
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 chromatography using non-phosphopeptide.

### Applications

#### Verified Activity:

1. Immunohistochemistry analysis of paraffin-embedded human brain tissue, using Mst1 (Phospho-Thr183) antibody TMAC-02660. The picture on the right is treated with the synthesized peptide.
2. Western blot analysis of extracts from 293 cells, treated with H<sub>2</sub>O<sub>2</sub> (100uM, 15mins), using Mst1 (Phospho-Thr183) antibody TMAC-02660. The lane on the right is treated with the synthesized peptide.



Application:	IHC,WB
Recommended	WB: 1:500-3000; IHC: 1:50-100

### Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

### Antigen Details

Immunogen:	Peptide sequence around phosphorylation site of threonine 183 (R-N-T(p)-V-I) derived from Human Mst1
Antigen Species:	human
Uniprot ID:	Q13043
Synonyms:	p-MST1 (T183);MST1 (p-Thr183);MST1 (p-T183);p-MST1 (Thr183)

---

### Research 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481