# Phospho-STK4 (Thr183) Antibody

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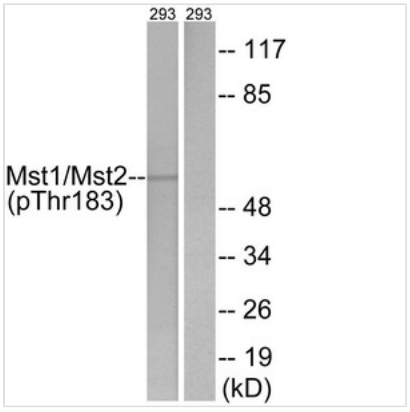
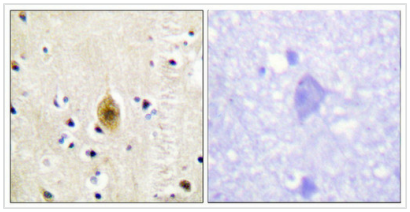
| **Product Code** | CSB-PA230165 |
| **Storage** | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. |
| **Uniprot No.** | Q13043 |
| **Immunogen** | Peptide sequence around phosphorylation site of threonine 183 (R-N-T(p)-V-I) derived from Human Mst1/2. |
| **Raised In** | Rabbit |
| **Species Reactivity** | Human,Mouse |
| **Specificity** | The antibody detects endogenous levels of Mst1/2 only when phosphorylated at threonine 183. |
| **Tested Applications** | ELISA,WB,IHC;WB:1:500-1:3000,IHC:1:50-1:100 |
| **Relevance** | 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. |
| **Form** | Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| **Purification Method** | 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 usi |
| **Clonality** | Polyclonal |
| **Alias** | 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 |
| **Product Type** | Polyclonal Antibody |
| **Species** | Homo sapiens (Human) |
| **Target Names** | STK4 |
| **Image** | |




Western blot analysis of extracts from 293 cells, treated with H2O2 (100uM, 15mins), using Mst1/2 (Phospho-Thr183) antibody. The lane on the right is treated with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using Mst1/2 (Phospho-Thr183) antibody. The picture on the right is treated with the synthesized peptide.

**Product Modify** Phospho-Thr183