

## Rabbit anti-Human, Mouse Mst1/2 Polyclonal Antibody | anti-Mst1/2 antibody

Mst1/2 (Phospho-Thr183) Antibody

| CATALOG # | HOST   | REACTIVITY   | APPLICATIONS                       |
|-----------|--------|--------------|------------------------------------|
| AAA302690 | Rabbit | Human, Mouse | Immunohistochemistry, Western Blot |

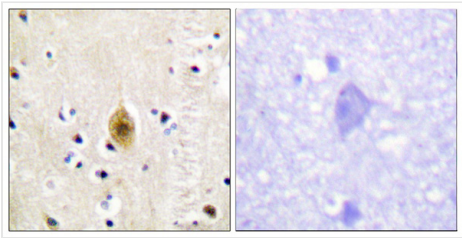
### PRODUCT SYNONYMS

Mst1/2; Polyclonal Antibody; Mst1/2 (Phospho-Thr183) Antibody; 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; Yeast Sps1/Ste20-related kin; anti-Mst1/2 antibody

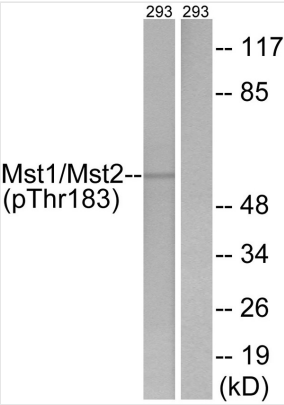
### PRODUCT SPECIFICATIONS

|                                                  |                                                                                                                                                                                                                                                                  |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                                                                                                                                                                           |
| Reactivity                                       | Human, Mouse                                                                                                                                                                                                                                                     |
| Clonality                                        | Polyclonal                                                                                                                                                                                                                                                       |
| Specificity                                      | The antibody detects endogenous levels of Mst1/2 only when phosphorylated at threonine 183.                                                                                                                                                                      |
| Purity/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 |
| Form/Format                                      | Rabbit IgG in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                               |
| Concentration                                    | 1.0 mg/ml (varies by lot)                                                                                                                                                                                                                                        |
| Sequence Length                                  | 487                                                                                                                                                                                                                                                              |
| Applicable Applications for anti-Mst1/2 antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                                                                                    |
| Immunogen Type                                   | peptide                                                                                                                                                                                                                                                          |
| Immunogen Description                            | Peptide sequence around phosphorylation site of threonine 183 (R-N-T(p)-V-I) derived from Human Mst1/2.                                                                                                                                                          |
| Modification                                     | Phospho-Thr183                                                                                                                                                                                                                                                   |
| Target Name                                      | Mst1/2                                                                                                                                                                                                                                                           |
| Preparation and Storage                          | Store at -20 degree C                                                                                                                                                                                                                                            |

IMAGES



**IHC (Immunohiostchemistry)**  
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.



**WB (Western Blot)**  
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.

ADDITIONAL INFORMATION

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-Mst1/2 antibody | 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. |
| Product Categories/Family for anti-Mst1/2 antibody   | Phospho-specific Ab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                |
|----------------------------------|----------------------------------------------------------------|
| NCBI GI #                        | 5454096                                                        |
| NCBI GeneID                      | 6789                                                           |
| NCBI Accession #                 | NP_006273.1                                                    |
| NCBI GenBank Nucleotide #        | NM_006282.2                                                    |
| UniProt Accession #              | Q13043; Q15802; Q4G156; Q5H982; Q6PD60; Q9BR32; Q9NTZ4; B2RCR8 |
| Molecular Weight                 | 52,335 Da                                                      |
| NCBI Official Full Name          | serine/threonine-protein kinase 4                              |
| NCBI Official Synonym Full Names | serine/threonine kinase 4                                      |
| NCBI Official Symbol             | STK4                                                           |
| NCBI Official Synonym Symbols    | KRS2; MST1; YSK3; TIIAC                                        |
| NCBI Protein Information         | serine/threonine-protein kinase 4                              |
| UniProt Protein Name             | Serine/threonine-protein kinase 4                              |
| UniProt Gene Name                | STK4                                                           |
| UniProt Synonym Gene Names       | KRS2; MST1; MST-1; MST1/N; MST1/C                              |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mst1-2-antibody-immunohistochemistry-western-blot-elisa/302690>