

MST3 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP7924a**Specification**

MST3 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q9Y6E0](#)**MST3 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 8428**Other Names**

Serine/threonine-protein kinase 24, Mammalian STE20-like protein kinase 3, MST-3, STE20-like kinase MST3, Serine/threonine-protein kinase 24 36 kDa subunit, Mammalian STE20-like protein kinase 3 N-terminal, MST3/N, Serine/threonine-protein kinase 24 12 kDa subunit, Mammalian STE20-like protein kinase 3 C-terminal, MST3/C, STK24, MST3, STK3

Target/Specificity

The synthetic peptide sequence is selected from aa 360~374 of human MST3.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MST3 Antibody (C-term) Blocking Peptide - Protein Information**Name** STK24**Synonyms** MST3, STK3**Function**

Serine/threonine-protein kinase that acts on both serine and threonine residues and promotes apoptosis in response to stress stimuli and caspase activation. Mediates oxidative-stress-induced cell death by modulating phosphorylation of JNK1-JNK2 (MAPK8 and MAPK9), p38 (MAPK11, MAPK12, MAPK13 and MAPK14) during oxidative stress. Plays a role in a staurosporine-induced caspase-independent apoptotic pathway by regulating the nuclear translocation of AIFM1 and ENDOG and the DNase activity associated with ENDOG. Phosphorylates STK38L on 'Thr-442' and stimulates its kinase activity. In association with STK26 negatively regulates Golgi reorientation in polarized cell migration upon RHO activation (PubMed:27807006). Regulates also cellular migration with alteration of PTPN12 activity and PXN phosphorylation: phosphorylates

PTPN12 and inhibits its activity and may regulate PXN phosphorylation through PTPN12. May act as a key regulator of axon regeneration in the optic nerve and radial nerve.

Cellular Location

Cytoplasm. Nucleus. Membrane. Note=The truncated form (MST3/N) translocates to the nucleus. Colocalizes with STK38L in the membrane

Tissue Location

Isoform A is ubiquitous. Isoform B is expressed in brain with high expression in hippocampus and cerebral cortex

MST3 Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

MST3 Antibody (C-term) Blocking Peptide - Images**MST3 Antibody (C-term) Blocking Peptide - Background**

The yeast 'Sterile 20' gene (STE20) functions upstream of the mitogen-activated protein kinase (MAPK) cascade. In mammals, protein kinases related to STE20 can be divided into 2 subfamilies based on their structure and regulation. Members of the PAK subfamily (see PAK3; MIM 300142) contain a C-terminal catalytic domain and an N-terminal regulatory domain that has a CDC42 (MIM 116952)-binding domain. In contrast, members of the GCK subfamily (see MAP4K2; MIM 603166), also called the Sps1 subfamily, have an N-terminal catalytic domain and a C-terminal regulatory domain without a CDC42-binding domain. STK24 belongs to the GCK subfamily of STE20-like kinases (Zhou et al., 2000 [PubMed 10644707]).[supplied by OMIM]

MST3 Antibody (C-term) Blocking Peptide - References

Huang, C.Y., et al., J. Biol. Chem. 277(37):34367-34374 (2002).Christian, S.L., et al., Genomics 79(5):635-656 (2002).Zhou, T.H., et al., J. Biol. Chem. 275(4):2513-2519 (2000).Schinkmann, K., et al., J. Biol. Chem. 272(45):28695-28703 (1997).