

Rabbit MST3 Polyclonal Antibody | anti-MST3 antibody

Phospho-MST3 (Thr18) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329737	Rabbit	Human, Mouse, Rat Predicted Reactivity: Rabbit (90%)	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

MST3; Polyclonal Antibody; Phospho-MST3 (Thr18) Antibody; epididymis secretory protein Li 95; HEL-S-95; Mammalian STE20 like protein kinase 3; Mammalian STE20-like protein kinase 3; Mammalian STE20-like protein kinase 3 C-terminal; Mammalian STE20-like protein kinase 3 N-terminal; Mammalian sterile 20-like 3; MST-3; MST3/C; MST3/N; MST3B; serine threonine kinase 24; Serine/threonine kinase 24 (Ste20; yeast homolog); Serine/threonine-protein kinase 24 12kDa subunit; Serine/threonine-protein kinase 24; STE20 homolog yeast; STE20 like kinase MST3; STE20-like kinase MST3; Stk24; STK24_HUMAN; STK3; anti-MST3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Rabbit (90%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-MST3 (Thr18) Antibody detects endogenous levels of MST3 only when phosphorylated at Thr18. Tissue Specificity: Isoform A is ubiquitous. Isoform B is expressed in brain with high expression in hippocampus and cerebral cortex.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-MST3 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human MST3 around the phosphorylation site of Thr18.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Proteolytically processed by caspases during apoptosis. Proteolytic cleavage results in kinase activation, nuclear translocation of the truncated form (MST3/N) and the induction of apoptosis. Isoform B is activated by phosphorylation by PKA. Oxidative stress induces phosphorylation. Activated by autophosphorylation at Thr-190 and phosphorylation at this site is essential for its function. Manganese, magnesium and cobalt-dependent autophosphorylation is mainly on threonine residues while zinc-dependent autophosphorylation is on both serine and threonine residues.
Subunit Structure	Monomer. Interacts with CTTNBP2NL. Interacts with RIPOR1 (via C-terminus); this interaction occurs in a PDCD10-dependent and Rho-independent manner. Interacts with PDCD10; this interaction is required for the association of STK24 with RIPOR1.
Similarity	Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily.
Subcellular Location	Cytoplasm. Nucleus. Membrane. Note: The truncated form (MST3/N) translocates to the nucleus. Colocalizes with STK38L in the membrane.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
At 1/200 staining Human pancreas tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemisry)
At 1/200 staining Mouse ganstric tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



IHC (Immunohiostchemistry)
Staining Rat lung tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of MST3 (Phospho-Thr18) using Mouse brain tissue lysates. -/+ means absence or presence of N peptide¼non-phospho peptide) and P peptide(phospho peptide).

ADDITIONAL INFORMATION

Related Product Information for anti-MST3 antibody	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. 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	110349738
NCBI GeneID	8428
NCBI Accession #	NP_001027467.2
NCBI GenBank Nucleotide #	NM_001032296.2
UniProt Accession #	Q9Y6E0; O14840; Q5JV92
Molecular Weight	49,308 Da
NCBI Official Full Name	serine/threonine-protein kinase 24 isoform b
NCBI Official Synonym Full Names	serine/threonine kinase 24
NCBI Official Symbol	STK24
NCBI Official Synonym Symbols	MST3; STK3; MST3B; STE20
NCBI Protein Information	serine/threonine-protein kinase 24; STE20-like kinase 3; STE20-like kinase MST3; sterile 20-like kinase 3; mammalian STE20-like protein kinase 3; serine/threonine kinase 24 (STE20 homolog, yeast)
UniProt Protein Name	Serine/threonine-protein kinase 24
UniProt Gene Name	STK24
UniProt Synonym Gene Names	MST3; STK3; MST-3; MST3/N; MST3/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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/mst3-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/329737>