

Product datasheet

Anti-MST3 antibody ab96705

★★★★☆ 2 Abreviews 2 Images

Overview

Product name	Anti-MST3 antibody
Description	Rabbit polyclonal to MST3
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Cow
Immunogen	Synthetic peptide containing a sequence corresponding to a region within amino acids 125-189 (LREILKGLDY LHSEKKIHRD IKAANVLLSE HGEVKLADFG VAGQLTDTQI KRNTFVGTPF WMAPE) of Human MST3 (NP_001027467). Run BLAST with ExPASy Run BLAST with NCBI
Positive control	Raji whole cell lysate; HeLa cells; 293T, A431 and H1299 cell lines

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 10% Glycerol, 1.21% Tris, 0.75% Glycine
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab96705** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 48 kDa.

Application	Abreviews	Notes
ICC/IF	★★★★☆	1/100 - 1/200.

Target

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. Regulates 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.

Tissue specificity

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

Sequence similarities

Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily. Contains 1 protein kinase domain.

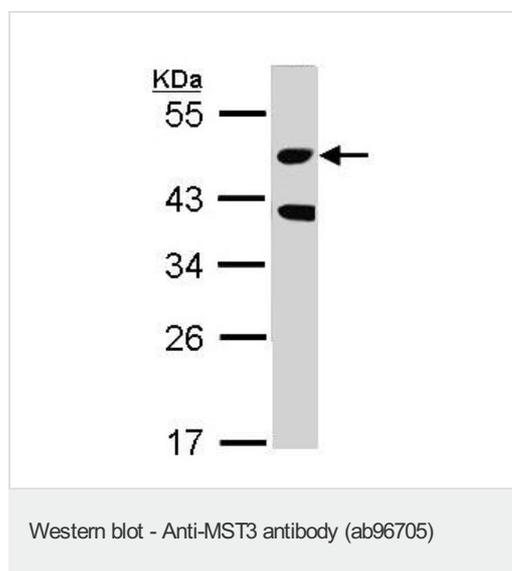
Post-translational modifications

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.

Cellular localization

Cytoplasm. Nucleus. Membrane. The truncated form (MST3/N) translocates to the nucleus. Co-localizes with STK38L in the membrane.

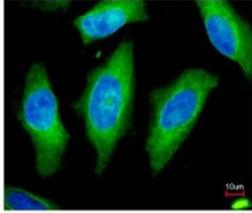
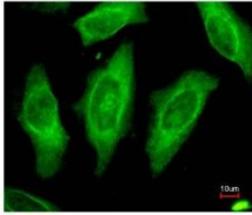
Images



Anti-MST3 antibody (ab96705) at 1/1000 dilution + Raji whole cell lysate at 30 µg

Predicted band size: 48 kDa

10% SDS-PAGE



Immunofluorescence analysis of MST3 in paraformaldehyde-fixed HeLa cells, using ab96705 at 1/200 dilution (top image) and merged with DNA probe (bottom image).

Immunocytochemistry/ Immunofluorescence - Anti-MST3 antibody (ab96705)

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