

ARG59562 anti-STK24 / MST3 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes STK24 / MST3
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	STK24 / MST3
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 312-431 of Human STK24 / MST3 (NP_001027467.2).
Conjugation	Un-conjugated
Alternate Names	STE20-like kinase MST3; Mammalian STE20-like protein kinase 3 N-terminal; MST3/N; MST3B; STE20; Mammalian STE20-like protein kinase 3 C-terminal; HEL-S-95; MST3; Mammalian STE20-like protein kinase 3; STK3; MST-3; EC 2.7.11.1; MST3/C; Serine/threonine-protein kinase 24

Application Instructions

Predict Reactivity Note	Rat								
Application table	<table> <tr> <th>Application</th><th>Dilution</th></tr> <tr> <td>ICC/IF</td><td>1:50 - 1:200</td></tr> <tr> <td>IHC-P</td><td>1:50 - 1:200</td></tr> <tr> <td>WB</td><td>1:1000 - 1:2000</td></tr> </table>	Application	Dilution	ICC/IF	1:50 - 1:200	IHC-P	1:50 - 1:200	WB	1:1000 - 1:2000
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IHC-P	1:50 - 1:200								
WB	1:1000 - 1:2000								
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.								
Positive Control	Mouse lung and U-251MG.								
Observed Size	49 kDa								

Properties

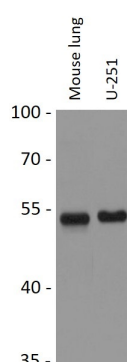
Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	STK24
Gene Full Name	serine/threonine kinase 24
Background	This gene encodes a serine/threonine protein kinase that functions upstream of mitogen-activated protein kinase (MAPK) signaling. The encoded protein is cleaved into two chains by caspases; the N-terminal fragment (MST3/N) translocates to the nucleus and promotes programmed cells death. There is a pseudogene for this gene on chromosome X. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2013]
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. [UniProt]
Calculated Mw	49 kDa
PTM	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. [UniProt]
Cellular Localization	Cytoplasm, Nucleus, Membrane. [UniProt]

Images



ARG59562 anti-STK24 / MST3 antibody WB image

Western blot: 25 µg of Mouse lung and U-251MG cell lysates stained with ARG59562 anti-STK24 / MST3 antibody at 1:1000 dilution.