



## Rabbit Anti-MST1/MST2 antibody

SL8477R

<b>Product Name:</b>	MST1/MST2
<b>Chinese Name:</b>	蛋白激酶MST1/2抗体
<b>Alias:</b>	DKFZp686A2068; FLJ90748; KRS1; KRS2; Mammalian STE20 like protein kinase 1; Mammalian STE20 like protein kinase 2; MST 1; MST 2; MST1; MST2; Serine/threonine kinase 3 (STE20 homolog yeast); Serine/threonine kinase 3 (Ste20 yeast homolog); Serine/threonine kinase 3; Serine/threonine kinase 4; Serine/threonine protein kinase 3; Serine/threonine protein kinase 4; Serine/threonine protein kinase Krs 1; Serine/threonine protein kinase Krs 2; STE20 like kinase MST1; STE20 like kinase MST2; STK 3; STK 4; STK3; STK4; YSK3.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Zebrafish,Guinea Pig,Cat,Chimpanzee,Rhesus monkey, Gorilla, Tilapia, Orangutan, Xenopus tropical
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	56kDa
<b>Cellular localization:</b>	The nucleuscytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human MST1/MST2:
<b>Isotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>

This gene encodes a serine/threonine protein kinase activated by proapoptotic molecules indicating the encoded protein functions as a growth suppressor. Cleavage of the protein product by caspase removes the inhibitory C-terminal portion. The N-terminal portion is transported to the nucleus where it homodimerizes to form the active kinase which promotes the condensation of chromatin during apoptosis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]

**Function:**

The human serine/threonine kinase, mammalian STE20 like kinase (MST), is considerably homologous to the budding yeast kinases, SPS1 and STE20, throughout their kinase domains. When stably expressed in HeLa cells, MST highly sensitizes the cells to death receptor mediated apoptosis by accelerating caspase 3 activation. These findings suggest that MST1 and MST2 play a role in apoptosis both upstream and downstream of caspase activation. MST1 is cleaved and activated by caspases during apoptosis and is capable of inducing apoptotic morphological changes such as chromatin condensation upon overexpression. Mammalian Sterile 20 Like 2 (MST2) is most similar to the previously identified MST1 protein kinase (78% identity, 88% similarity). Northern analysis indicates that MST2 mRNA is expressed at high levels in adult kidney, skeletal and placental tissues and at very low levels in adult heart, lung, liver and brain tissues. An in vitro kinase assay indicates that MST2 can phosphorylate an exogenous substrate, as well as itself, and phospho amino acid analysis indicates that it is a serine/threonine protein kinase.

**Subcellular Location:**

Cytoplasm. Nucleus. Note: The caspase cleaved form cycles between the nucleus and cytoplasm.

**SWISS:**

Q13043

**Gene ID:**

6788

**Database links:**

[Entrez Gene: 6788](#) Human

[Entrez Gene: 6789](#) Human

[Entrez Gene: 311622](#) Rat

[Entrez Gene: 65189](#) Rat

[Omim: 604965](#) Human

**Product Detail:**

[Oimim: 605030](#) Human

[SwissProt: Q13043](#) Human

[SwissProt: Q13188](#) Human

[SwissProt: O54748](#) Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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