

MST1 recombinant protein

MST1, Active

CATALOG # AAA73960	HOST Sf9 insect cells	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

MST1; Active; KRS2; YSK3; DKFZp686A2068; STK4; MST1 recombinant protein

PRODUCT SPECIFICATIONS

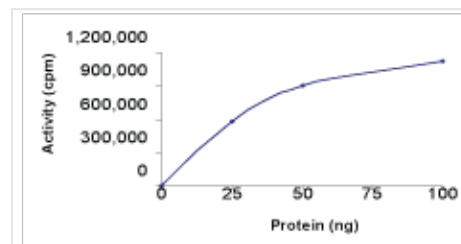
Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol
Applicable Applications for MST1 recombinant protein	WB (Western Blot), Kinase Assay
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



Activity

Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for MST1 recombinant protein	Recombinant full-length human MST1 was expressed by baculovirus in Sf9 cells using an N-terminal GST tag. The gene accession number is NM_006282. MST1 belongs to a family of proteins that share similarity with a budding yeast serine/threonine kinase, sterile-20 (Ste20). Endogenous full-length MST1 is activated by a variety of stressful stimuli, accompanied by the secondary appearance of a 36kDa Thr183-phosphorylated, caspase-cleaved catalytic fragment (1). Recombinant MST1 undergo a robust autoactivation in vitro, mediated by an intramolecular autophosphorylation on the activation loop of an MST dimer. MST1 can initiate apoptosis when transiently overexpressed in mammalian cells. Interference with the ability of endogenous MST1 to associate with the putative tumor suppressor proteins Nore1/RASSF can inhibit Ras-induced apoptosis (2).
Product Categories/Family for MST1 recombinant protein	Protein Kinases; AKT/PKB Pathway; Apoptosis/Autophagy; Cancer; Cardiovascular Disease; Inflammation; JNK/SAPK Pathway; Neurobiology; Receptor Tyrosine Kinases; Ser/Thr Kinases

References

1. De Souza, P M. et al: Mammalian Sterile20-like kinase 1 and the regulation of apoptosis. Biochem Soc Trans. 2004 Jun;32(Pt3):485-8.
2. Avruch, J. et al: Nore1 and RASSF1 Regulation of Cell Proliferation and of the MST1/2 Kinases. Methods Enzymol. 2005;407:290-310.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #

[NM_006282](#)

Molecular Weight

~83kDa

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.

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Online datasheet: <https://stage.aaabiotech.com/mst1-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73960>