

MST2 active protein

Recombinant MST2 protein

CATALOG # AAA60327	HOST Baculovirus
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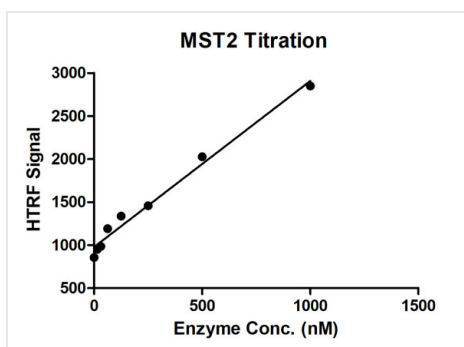
PRODUCT SYNONYMS

MST2; Recombinant MST2 protein; Mammalian STE20-Like Protein Kinase 2; STK3; MST2 active protein

PRODUCT SPECIFICATIONS

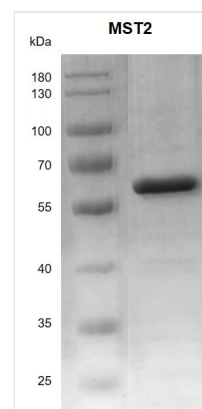
Host	Baculovirus
Purity/Purification	>95%
Form/Format	Recombinant MST2 protein is supplied in 25 mM HEPES-NaOH pH 7.5, 300 mM NaCl, 10% glycerol, 0.04% Triton X-100, 0.5 mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Protein Details	Recombinant MST2 protein was expressed in baculovirus expression system as the full-length protein (accession number NP_006272.2) with a N-terminal DYKDDDDK tag. The molecular weight of the protein is 57.6 kDa.
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	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

IMAGES



Bioactivity

HTRF assay for MST2 activity 1 μ M STK S3 substrate was incubated with different concentrations of MST2 protein in a 10 μ l reaction system containing 1 $\times$ Enzymatic Buffer, 10 mM MgCl₂, 1 mM DTT, and 100 μ M ATP for 1 hour. The 10 μ l detection reagents containing anti-STK antibody (1:2) and SA-XL665 (1:100) diluted with 1 $\times$ Detection Buffer were added and incubated with the reactions for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.



SDS-PAGE

Recombinant MST2 protein 10% SDS-PAGE Coomassie staining MW: 57.6 kDa Purity: $\geq$ 95%

ADDITIONAL INFORMATION

Related Product Information for MST2 active protein	MST2 also known as STK3 is a stress-activated, pro-apoptotic kinase which, following caspase cleavage, enters the nucleus and induces chromatin condensation followed by inter nucleosomal DNA fragmentation. Key component of the Hippo signaling pathway which plays a pivotal role in organ size control and tumor suppression by restricting proliferation and promoting apoptosis. The core of this pathway is composed of a kinase cascade wherein STK3/MST2 and STK4/MST1, in complex with its regulatory protein SAV1, MST2 phosphorylates and activates LATS1/2 in complex with its regulatory protein MOB1, which in turn phosphorylates and inactivates YAP1 oncoprotein and WWTR1/ TAZ. Phosphorylation of YAP1 by LATS2 inhibits its translocation into the nucleus to regulate cellular genes important for cell proliferation, cell death, and cell migration. STK3/MST2 and STK4/MST1 are required to repress proliferation of mature hepatocytes, to prevent activation of facultative adult liver stem cells (oval cells), and to inhibit tumor formation. MST2 phosphorylates NEK2 and plays a role in centrosome disjunction by regulating the localization of NEK2 to centrosome, and its ability to phosphorylate CROCC and CEP250.
Product Categories/Family for MST2 active protein	Recombinant Proteins

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/baculovirus-active-protein/mst2/60327>