

Recombinant human Serine/threonine-protein kinase 4/MST-1 ab60337

4 图像

描述

产品名称	重组人Serine/threonine-protein kinase 4/MST-1
纯度	> 85 % Densitometry. Affinity purified.
表达系统	Baculovirus infected Sf9 cells
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
标签	GST tag N-Terminus

技术指标

Our **Abpromise guarantee** covers the use of **ab60337** in the following tested applications.

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

应用	Functional Studies SDS-PAGE
形式	Liquid
补充说明	ab204853 (IRS1 peptide) can be utilized as a substrate for assessing kinase activity Previously labelled as Serine/threonine-protein kinase 4

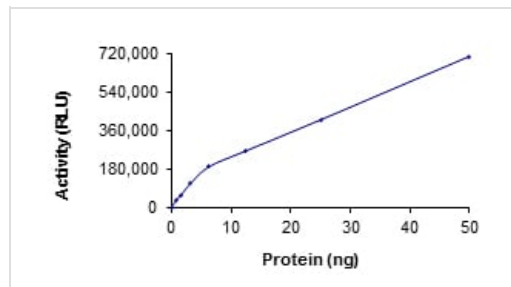
制备和贮存

稳定性和存储	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.0038% EGTA, 0.00174% PMSF, 0.00385% DTT, 0.79% Tris HCl, 0.00292% EDTA, 25% Glycerol (glycerin, glycerine), 0.87% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.
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常规信息

功能	Stress-activated, pro-apoptotic kinase which, following caspase-cleavage, enters the nucleus and induces chromatin condensation followed by internucleosomal 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 MST1/MST2, in complex with its regulatory protein SAV1, 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. MST1/MST2 are required to repress proliferation of mature hepatocytes, to prevent activation of facultative adult liver stem cells (oval cells), and to inhibit tumor formation (By similarity). Phosphorylates 'Ser-14' of histone H2B (H2BS14ph) during apoptosis. Phosphorylates FOXO3 upon oxidative stress, which results in its nuclear translocation and cell death initiation.
组织特异性	Ubiquitously expressed.
序列相似性	Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily. Contains 1 protein kinase domain. Contains 1 SARAH domain.
翻译后修饰	Autophosphorylated on serine and threonine residues.
细胞定位	Cytoplasm. Nucleus. The caspase-cleaved form cycles between the nucleus and cytoplasm.

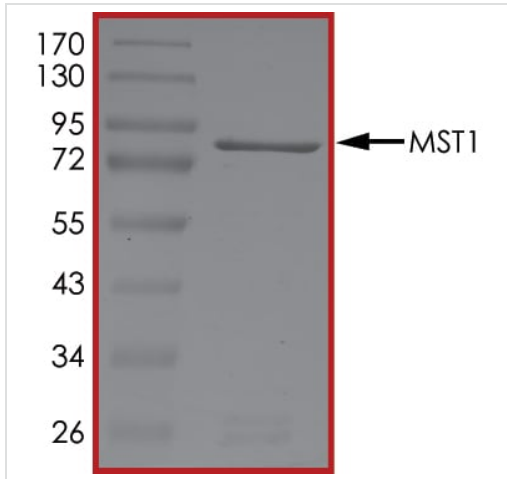
图片



The specific activity of Serine/threonine-protein kinase 4/MST-1 (ab60337) was determined to be 101.7 nmol/min/mg as per activity assay protocol and was equivalent to 953 nmol/min/mg as per radiometric assay

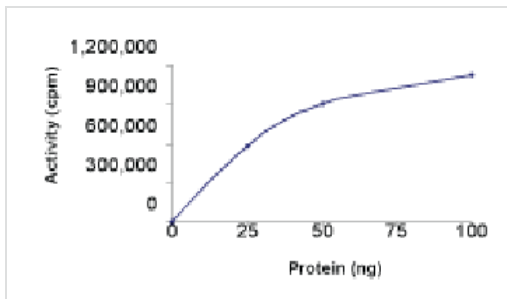
Functional Studies - Recombinant human

Serine/threonine-protein kinase 4/MST-1 (ab60337)



SDS PAGE analysis of ab60337

SDS-PAGE - Recombinant human Serine/threonine-protein kinase 4/MST-1 (ab60337)



Sample Kinase Activity Plot.

Functional Studies - Recombinant human Serine/threonine-protein kinase 4/MST-1 (ab60337)



ab60337 on SDS-PAGE, MW ~83kDa.

SDS-PAGE - Recombinant human Serine/threonine-protein kinase 4/MST-1 (ab60337)

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