Datasheet for ABIN968344

anti-MST1 antibody (AA 331-483)

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Overview

Quantity:	50 µg
Target:	MST1
Binding Specificity:	AA 331-483
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This MST1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Human MST1 aa. 331-483
Clone:	7-MST1
Isotype:	IgG1
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	MST1
Alternative Name:	MST1 (MST1 Products)
Background:	Ste20 is a S. cerevisiae Ser/Thr protein kinase that functions upstream of the MAP kinase module. Mammalian and yeast homologs of this kinase are divided into two classes based on their structure and regulation. Members of the first class (Ste20, Cla4, and p21-activated protein kinase [PAK]) contain a C-terminal kinase domain, an N-terminal regulatory domain and a small GTPase Rac1/Cdc42-binding domain. Members of the second class lack GTPase-binding sites, but are similar to the former class throughout the catalytic domain. The latter class includes GC kinase, HPK, KHS, KRS1 & 2, MST1, 2, & 3, and SOK-1. MST1 (Mammalian Sterile Twenty-like-1) is a ubiquitously expressed kinase that contains an N-terminal kinase domain and C-terminal dimerization and inhibitory domains. Apoptotic stimuli, such as anti-Fas, result in cleavage of the C-terminal regulatory domain by caspase-3 or a related caspase, and activation of MST1. Overexpression of MST1 induces caspase activity, apoptotic morphological changes, and the activation of the SAPK and p38 MAPK pathways. Thus, MST1 is thought to function as a component of a positive feedback loop that amplifies the apoptotic response. Synonyms: Mammalian Sterile Twenty-like 1, Mammalian STE20-like kinase-1
Molecular Weight:	56 kDa

Application Details

Comment:	Related Products: ABIN968537, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.

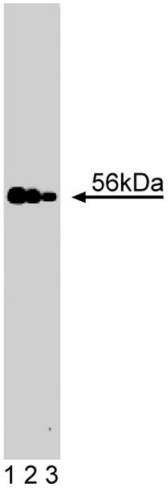
Publications

Product cited in:

Lian, Toker, Badwey: "Phosphorylation of the activation loop of gamma p21-activated kinase (gamma-Pak) and related kinases (MSTs) in normal and stressed neutrophils." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 166, Issue 10, pp. 6349-57, (2001) (PubMed).

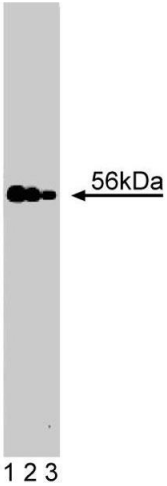
Creasy, Chernoff: "Cloning and characterization of a human protein kinase with homology to Ste20." in: **The Journal of biological chemistry**, Vol. 270, Issue 37, pp. 21695-700, (1995) (PubMed).

Images



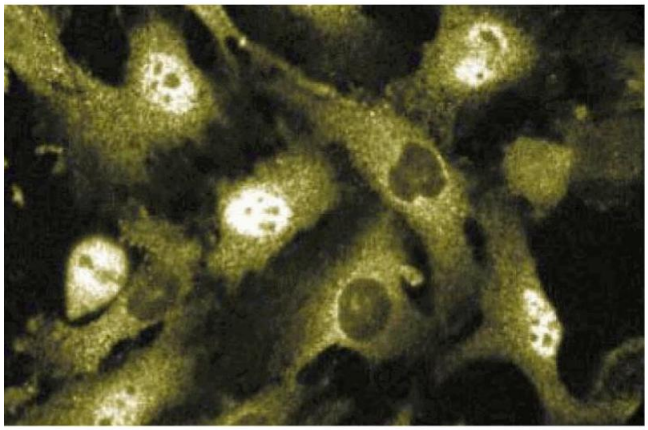
Western Blotting

Image 1.



Western Blotting

Image 2. Western blot analysis of MST1 on a Jurkat cell lysate (Human T-cell leukemia, ATCC TIB-152). Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of the mouse anti-human MST1 antibody.



Immunofluorescence

Image 3. Immunofluorescence staining of human endothelial cells.

Please check the product details page for more images. Overall 4 images are available for ABIN968344.

