Nur für Forschungszwecke

Phospho-MST1 (Thr183)/MST2 (Thr180) Rekombinanter Antikörper

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Katalog-Nr.:80093-1-RR 3 Publikationen

Allgemeine Informationen

Katalog-Nr.:
80093-1-RR

Größe:
100ul , Konzentration: 500 μg/ml von Nanodrop;

Wirt:
Kaninchen

Isotyp:
IgG

GenBank-Zugangsnummer:
BC005231

GeneID (NCBI):
6789

Vollständiger Name:
serine/threonine kinase 4

Berechneté Masse:
56 kDa

Beobachteté Masse:
59 kDa

Reinigungsmethode:
Protein-A-Reinigung

CloneNo.:
1P6

Empfohlene Verdünnungen:
WB 1:2000-1:10000

Anwendungen

Geprüfte Anwendungen:
FC, WB, ELISA

In Publikationen genannte Anwendungen:
WB

Getestete Reaktivität:
Human

Zitierte Arten:
Maus

Positivkontrollen:

WB : Jurkat-Zellen, HeLa-Zellen, Mit Calyculin A behandelte HeLa-Zellen, mit Staurosporin behandelte Jurkat-Zellen, mit Staurosporin behandelte Ramos-Zellen

Hintergrundinformationen

Mammalian STE20-like serine-threonine kinase MST1, encoded by the STK4 gene, is a multifunctional protein. MST1 and its closest paralogs MST2 (encoded by the STK3 gene), MST3, and MST4 are members of the Class II Germinal Center Family of Protein Kinases . STK3/4 and LATS1/2 (large tumor suppressor 1 and 2) are core kinase components of the Hippo tumor suppressor pathway in mammalians . In the conventional Hippo pathway, the STK3/4 and LATS1/2 signaling cascade phosphorylates and inactivates the transcriptional coactivator YAP1 (yes associated protein 1) and its close paralog WWTR1]. YAP1 and WWTR1 do not have DNA binding domains and they exert their biological outputs, such as cell proliferation and survival, by interacting with the TEAD1-4 transcription factors. Lines of evidence have indicated that dysregulation or loss of STK4/Hippo signaling is linked to developmental disorders and carcinogenesis with poor prognosis. STK4 is a stress-induced kinase and it can be activated in response to cell-death inducers. Autophosphorylation of STK4 at Thr183 (Thr180 in STK3) in the activation loop is a key activation mechanism for STK4/3 because phosphorylation of Thr183/180 causes the cleavage of STK4 by caspases under apoptotic conditions. The caspase-cleavage results in a more active STK4 protein (STK4-N, an amino-terminally truncated STK4), which localizes into the nucleus and induces apoptosis through histone modifications and chromatin condensations.

Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Tianxin Zhao	36493639	J Hazard Mater	WB
Fang-fang Yu	34555722	Ecotoxicol Environ Saf	WB
Jiawen Bu	37147285	Nat Commun	WB

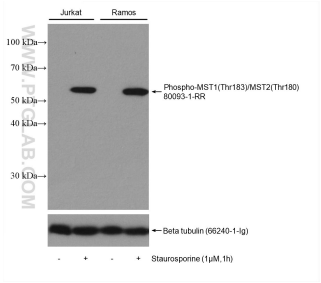
Lagerung

Lagerungsbedingungen:
Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil
Lagerungspuffer:
PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.
Aliquotieren ist nicht notwendig bei -20°C lagerung

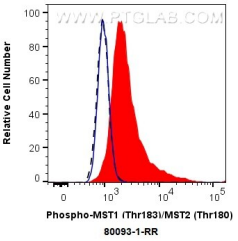
*** 20ul-Größen enthalten 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

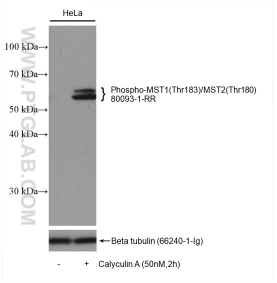
Ausgewählte Validierungsdaten



Non-treated Ramos and Jurkat and Staurosporine treated Ramos and Jurkat cells were subjected to SDS PAGE followed by western blot with 80093-1-RR (Phospho-MST1 (Thr183)/MST2 (Thr180) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



1X10^6 HeLa cells untreated (dashed lines) or treated with Calyculin A (red) were intracellularly stained with 0.25 ug Anti-Human Phospho-MST1 (Thr183)/MST2 (Thr180) (80093-1-RR, Clone:1P6) labeled with FlexAble CoraLite® Plus 555 Antibody Labeling Kit for Rabbit IgG (KFA002), or 0.25 ug Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.



Non-treated HeLa and Calyculin A treated HeLa cells were subjected to SDS PAGE followed by western blot with 80093-1-RR (Phospho-MST1 (Thr183)/MST2 (Thr180) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.