

À des fins de recherche uniquement

# Anticorps Recombinant de lapin anti-Phospho-MST1 (Thr183)/MST2 (Thr180)



Numéro de catalogue: **80093-1-RR** 3 Publications

## Informations de base

Numéro de catalogue:  
80093-1-RR

Taille:  
100ul , Concentration: 500 µg/ml by  
Nanodrop;

Hôte:  
Lapin

Isotype:  
IgG

Numéro d'acquisition GenBank:  
BC005231

Identification du gène (NCBI):  
6789

Nom complet:  
serine/threonine kinase 4

MW calculé  
56 kDa

MW observés:  
59 kDa

Méthode de purification:  
Purification par protéine A

CloneNo.:  
1P6

Dilutions recommandées:  
WB 1:2000-1:10000

## Applications

Applications testées:  
FC, WB, ELISA

Demandes citées:  
WB

Spécificité de l'espèce:  
Humain

Espèces citées:  
souris

Contrôles positifs:

WB : cellules Jurkat, cellules HeLa, cellules HeLa traitées à la calyculine A, cellules Jurkat traitées à la staurosporine, cellules Ramos traitées à la staurosporine

## Informations générales

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 Germline 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 mammals. 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.

## Publications notables

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

## Stockage

Stockage:

Stocker à -20°C. Stable pendant un an après l'expédition.

Tampon de stockage:

PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3

L'aliquoteage n'est pas nécessaire pour le stockage à -20C

\*\*\* Les 20ul contiennent 0,1% de BSA.

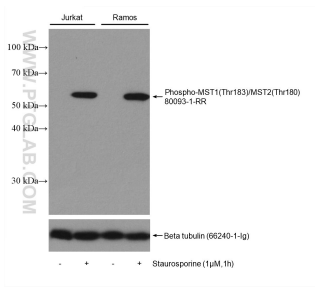
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T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

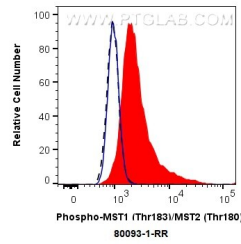
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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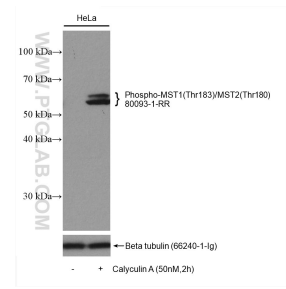
## Données de validation sélectionnées



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.



$1 \times 10^6$  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.