

MST1 (STK4) Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Recombinant protein corresponding to Human MST1
Form	Liquid
Concentration	0.1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7.2, with 40% glycerol
Contains	0.02% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2644241

Applications	Tested Dilution	Publications
Western Blot (WB)	0.04-0.4 µg/mL	1 Publication
Immunohistochemistry (IHC)	1:50-1:200	-
Immunocytochemistry (ICC/IF)	0.25-2 µg/mL	-

Product Specific Information

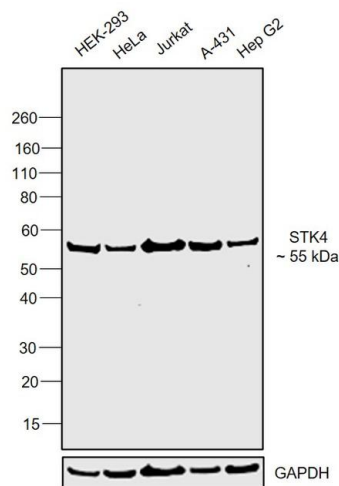
Immunogen sequence: IEHDDTLPSQ LGTMVINAED EEEEGTMKRR DETMQPAKPS FLEYFEQKEK ENQINSFGKS VPGPLKNSSD WKIPQDGDYE F

Highest antigen sequence identity to the following orthologs: Mouse - 94%, Rat - 94%.

Product Images For MST1 (STK4) Polyclonal Antibody

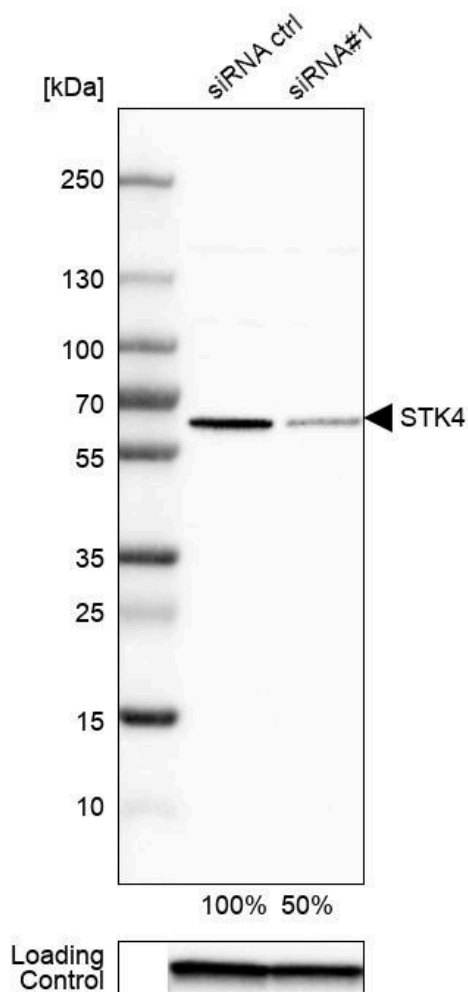
MST1 (STK4) Antibody (PA5-53295) in WB

Western blot was performed using Anti-MST1 (STK4) Polyclonal Antibody (Product # PA5-53295) and a 55 kDa band corresponding to STK4 was observed across cell lines tested. Whole cell extracts (30 µg lysate) of HEK-293 (Lane 1), HeLa (Lane 2), Jurkat (Lane 3), A-431 (Lane 4) and Hep G2 (Lane 5) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (0.1 µg/mL) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



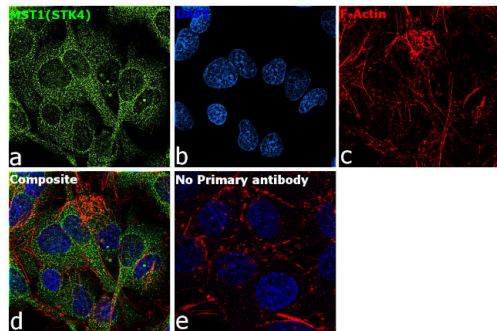
MST1 (STK4) Antibody (PA5-53295)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. Caco-2 cells were transfected with, control siRNA, MST1 siRNA probe #1, and a decrease in signal intensity was observed in Western Blot application using Anti-MST1 Polyclonal Antibody (Product # PA5-53295) used at a dilution of 0.4 µg/mL. Anti-GAPDH was used as a loading control. {KD}



MST1 (STK4) Antibody (PA5-53295) in ICC/IF

Immunofluorescence analysis of MST1 was performed using 70% confluent log phase Hep G2 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with MST1 Polyclonal Antibody (Product # PA5-53295) at 2 µg/mL in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Donkey anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32790), (1:2000), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b:Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



[View more figures on thermofisher.com](#)

1 Reference

Western Blot (1)

Cell cycle (Georgetown, Tex.)

LncRNA SNHG17 knockdown promotes Parkin-dependent mitophagy and reduces apoptosis of podocytes through Mst1.

"PA5-53295 was used in Western Blot to conclude that lncRNA SNHG17 knockdown promotes Parkin-dependent mitophagy and reduces apoptosis of podocytes through regulating the degradation of Mst1."

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Year
2020

Species
Mouse

Dilution
1:1000

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