

# Spastin Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Recombinant protein corresponding to Human Spastin
Form	Liquid
Concentration	0.10 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_2647785

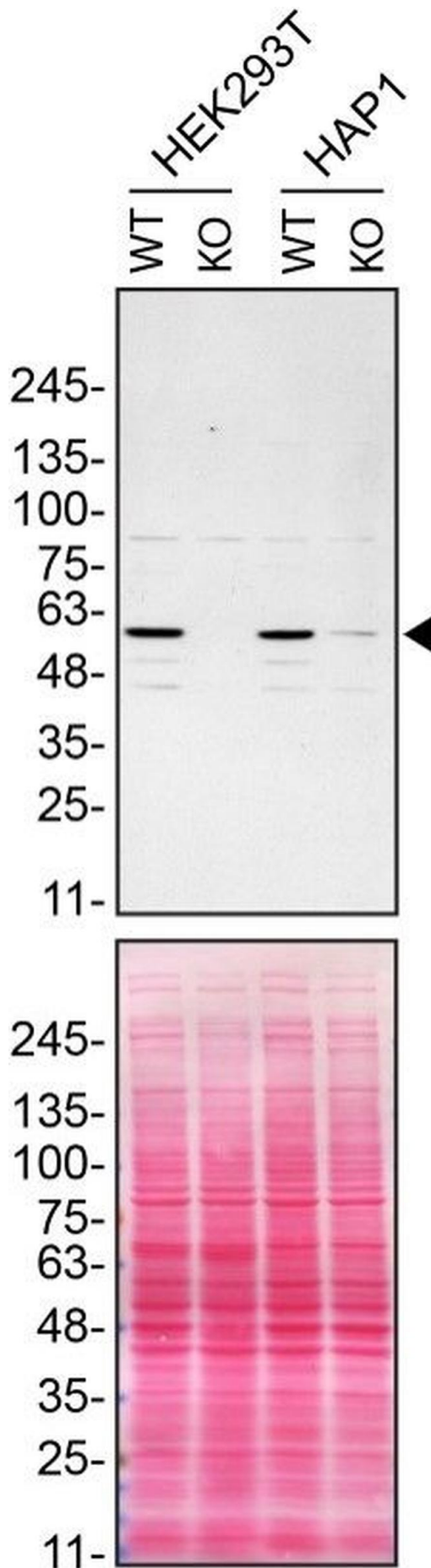
Applications	Tested Dilution	Publications
Western Blot (WB)	0.04-0.4 µg/mL	1 Publication

## Product Specific Information

Immunogen sequence: KRKDPLTHTS NSLPRSKTVM KTGSAGLSGH HRAPSYSGLS MVSGVKQGSG PAPTT HKGTP KTNRTNKPST PTTATRK KKD LKNFRNVDSN LANLIMNEIV DNGTAVKFDD IAGQDLAKQA LQEIVILPSL RPELFTGL

Highest antigen sequence identity to the following orthologs: Mouse - 91%, Rat - 91%.

## Product Images For Spastin Polyclonal Antibody

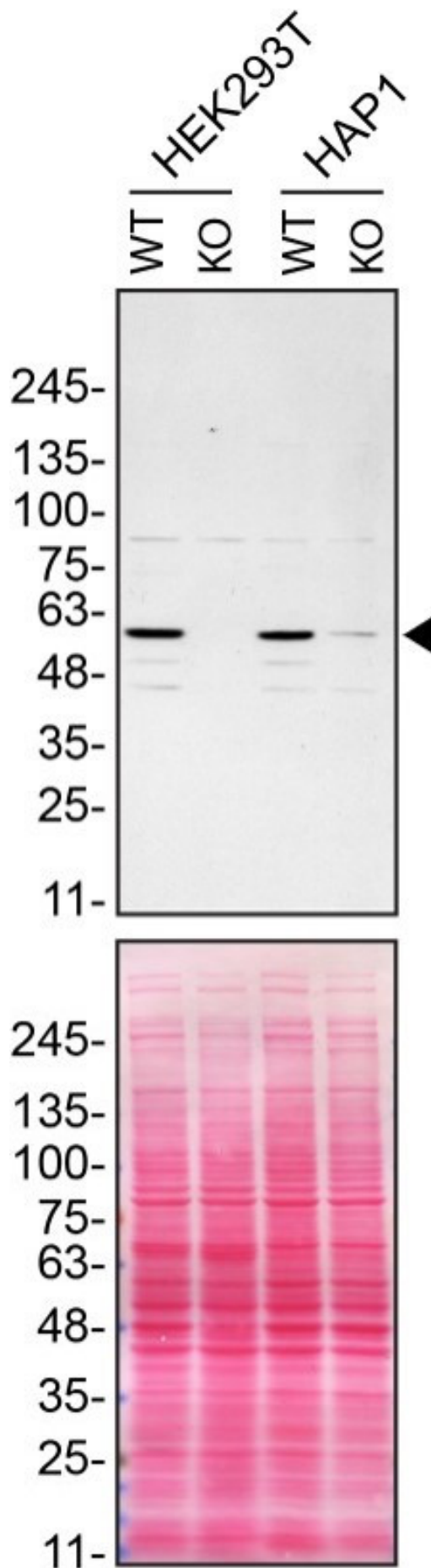


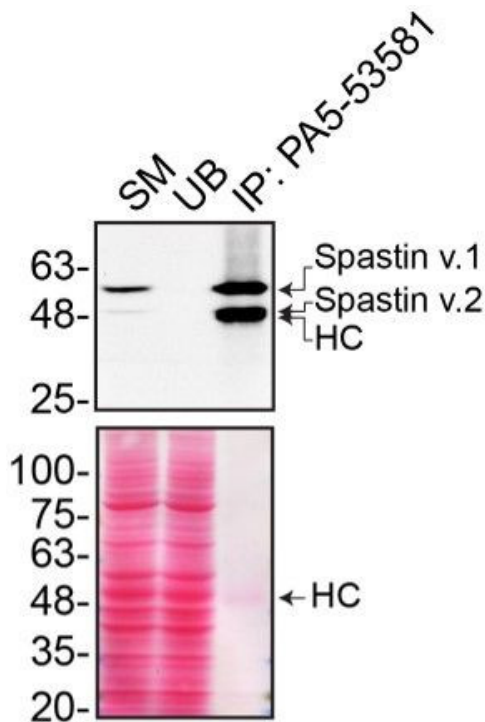
### Spastin Antibody (PA5-53581) in WB

Western blot of SPAST was performed by loading 80 µg of WT (lanes 1/3) and SPAST CRISPR KO (lanes 2/4) HEK293T or HAP1 cell lysates in RIPA buffer onto a 4-15% gradient polyacrylamide gel. Proteins on the blots were visualized with Ponceau staining (below immunoblot). Proteins were transferred to nitrocellulose membrane and blocked in 5% milk for 1 hr. SPAST was detected at approximately 67 kDa (designated by the black arrow) using a SPAST polyclonal antibody (Product # PA5-53581) at a dilution of 1:500 in 5% BSA in TBS with 0.1% Tween 20 (TBST) overnight at 4°C. The peroxidase-conjugated secondary antibody (Product # 65-6120) was diluted to 0.2 µg/mL in TBST with 5% milk for 1 hr. Chemiluminescent detection was performed using Pierce ECL Western Blotting Substrate (Product # 32106). Data courtesy of YCharOS Inc., an open science company with the mission of characterizing commercially available antibodies using knockout validation.

### Spastin Antibody (PA5-53581)

Antibody specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. Loss of signal was observed for target protein in SPAST knockout (KO) cell lines using Anti-SPAST polyclonal antibody (Product # PA5-53581). Ponceau stained transfer shown below. Data courtesy of YCharOS Inc., an open science company with the mission of characterizing commercially available antibodies using knockout validation. {KO}





### Spastin Antibody (PA5-53581) in IP

Immunoprecipitation of SPAST was performed on HAP1 cell lysates. Antibody-bead conjugates were prepared by adding 1 µg of SPAST polyclonal antibody (Product # PA5-53581) with 30 µL of protein A-Sepharose beads and rocked overnight at 4°C. 1 mg of lysate was incubated with an antibody-bead conjugate for 2 hours at 4°C. Following centrifugation and multiple washes, 10% starting material (SM), 10% unbound fraction (UB) and immunoprecipitated fraction (IP) were processed for immunoblot using a different SPAST monoclonal antibody. Ponceau stained transfer of blot is shown. Data courtesy of YCharOS Inc., an open science company with the mission of characterizing commercially available antibodies using knockout validation.

[View more figures on thermofisher.com](https://thermofisher.com)

## 1 Reference

### Western Blot (1)

Frontiers in neurology

#### A novel truncating variant of *SPAST* associated with hereditary spastic paraplegia indicates a haploinsufficiency pathogenic mechanism.

"Published figure using Spastin polyclonal antibody (Product # PA5-53581) in Western Blot"

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Year  
2022

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