

# STIM1 Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Bovine, Dog, Human, Mouse, Rat
Published Species	Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide made to a C-terminal region with residues 600-685 of the human protein. [Uniprot#Q13586]
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS with 30% glycerol
Contains	0.1% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2197881

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	1 Publication
Immunocytochemistry (ICC/IF)	1:50-1:200	2 Publications

## Product Specific Information

The target sequence has 93% sequence homology with porcine and 79% sequence homology with xenopus.

Suggested positive control: antigen standard for STIM1 (transient overexpression lysate), HeLa whole cell lysate.

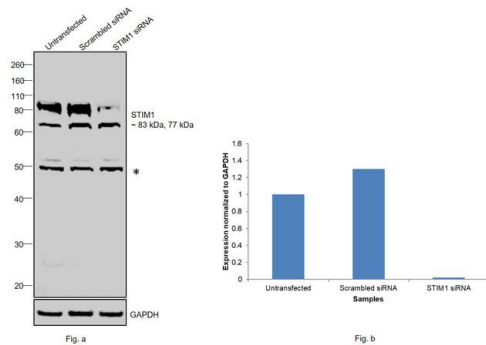
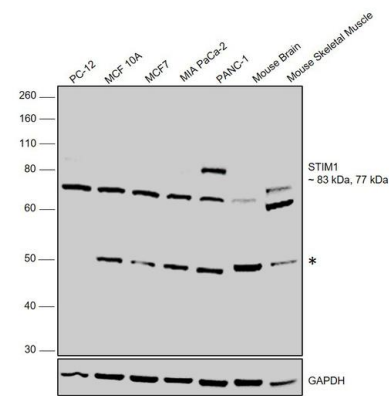
## Product Images For STIM1 Polyclonal Antibody

### STIM1 Antibody (PA1-46217) in WB

Western blot was performed using Anti-STIM1 Polyclonal Antibody (Product # PA1-46217) and bands corresponding to 83 kDa and 77 kDa of STIM1 were observed across all the cell lines and tissues tested along with an uncharacterized band (\*) at ~50 kDa across the panel. Whole cell extracts (30 µg lysate) of PC-12 (Lane 1), MCF 10A (Lane 2), MCF7 (Lane 3), MIA PaCa-2 (Lane 4), PANC-1 (Lane 5), tissue extracts (30 µg lysate) of Mouse Brain (Lane 6) and Mouse Skeletal Muscle (Lane 7) were electrophoresed using NuPAGE™ 10% Bis-Tris Protein Gel (Product # NP0302BOX). 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 (1 µg/mL) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4,000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).

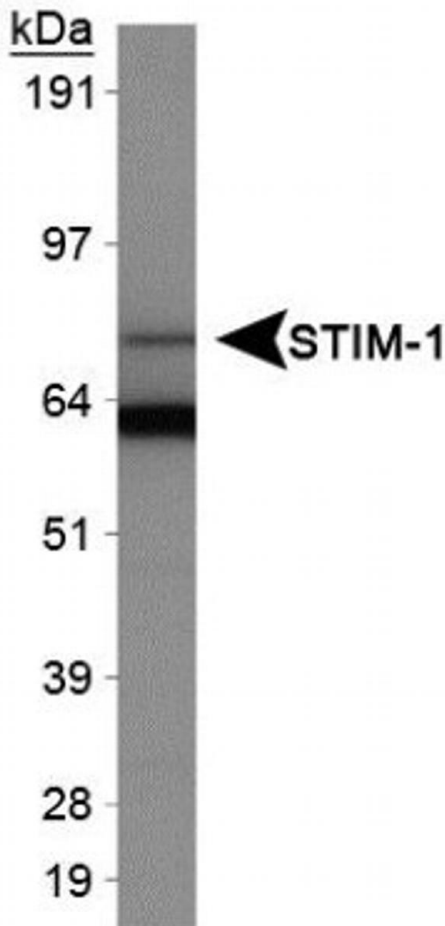
### STIM1 Antibody (PA1-46217) in WB

Knockdown of STIM1 was achieved by transfecting PANC-1 with STIM1 specific siRNAs (Silencer® select Product # s531229, s531227). Western blot analysis (Fig. a) was performed using whole cell extracts from the STIM1 knockdown cells (Lane 3), non-specific scrambled siRNA transfected cells (Lane 2) and untransfected cells (Lane 1). The blot was probed with STIM1 Polyclonal Antibody (Product # PA1-46217, 1 µg/mL) and Goat anti-Rabbit IgG (Heavy Chain), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 0.25 µg/mL, 1:4,000 dilution). Densitometric analysis of this western blot is shown in histogram (Fig. b). Decrease in signal (83 kDa isoform) upon siRNA mediated knock down confirms that antibody is specific to STIM1. (Note: An uncharacterized band was observed at 50 kDa).



### STIM1 Antibody (PA1-46217) in WB

Western blot analysis of STIM1 in HeLa whole cell extracts. Sample was incubated in STIM1 polyclonal antibody (Product # PA1-46217).



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

3 References

Western Blot (1)

Communications biology	Year 2020
Functional culture and in vitro genetic and small-molecule manipulation of adult mouse cardiomyocytes.	Species Mouse
"Published figure using STIM1 polyclonal antibody (Product # PA1-46217) in Immunocytochemistry"	Dilution 1:200
Authors: Callaghan NI, Lee SH, Hadipour-Lakmehsari S, Lee XA, Ahsan Siraj M, Driouchi A, Yip CM, Husain M, Simmons CA, Gramolini AO	

Immunocytochemistry (2)

The Journal of general physiology	Year 2022
X-ray irradiation triggers immune response in human T-lymphocytes via store-operated Ca2+ entry and NFAT activation.	
"Published figure using STIM1 polyclonal antibody (Product # PA1-46217) in Immunocytochemistry"	
Authors: Tandl D, Sponagel T, Alansary D, Fuck S, Smit T, Hehlhans S, Jakob B, Fournier C, Niemeyer BA, Rödel F, Roth B, Moroni A, Thiel G	

Communications biology	Year 2020
Functional culture and in vitro genetic and small-molecule manipulation of adult mouse cardiomyocytes.	Species Mouse
"Published figure using STIM1 polyclonal antibody (Product # PA1-46217) in Immunocytochemistry"	Dilution 1:200
Authors: Callaghan NI, Lee SH, Hadipour-Lakmehsari S, Lee XA, Ahsan Siraj M, Driouchi A, Yip CM, Husain M, Simmons CA, Gramolini AO	

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