

# Stathmin 1 Monoclonal Antibody (SP49)

Product Details	
Size	500 µL
Species Reactivity	Human, Mouse, Rat
Host/Isotype	Rabbit / IgG
Class	Monoclonal
Type	Antibody
Clone	SP49
Conjugate	Unconjugated
Immunogen	Synthetic peptide derived from the internal region of human stathmin
Form	Liquid
Purification	Protein A/G
Storage buffer	PBS, pH 7.6, with 1% BSA
Contains	0.1% sodium azide
Storage conditions	4° C, do not freeze
RRID	AB_2537919

Applications	Tested Dilution	Publications
Western Blot (WB)	1:25-1:300	-
Immunohistochemistry (Paraffin) (IHC (P))	1:100	-
Immunocytochemistry (ICC/IF)	1:100-1:500	-
Flow Cytometry (Flow)	1:40	-

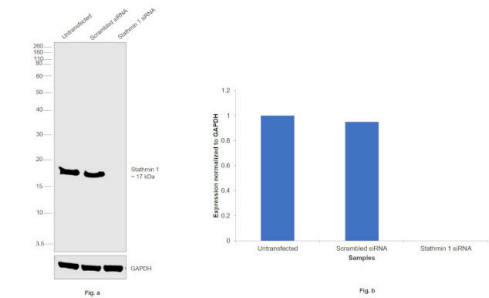
## Product Specific Information

Heat-mediated antigen retrieval is recommended prior to staining, using a 10mM citrate buffer, pH 6.0, for 10-20 minutes followed by cooling at room temperature for 20 min. Following antigen retrieval, incubate samples with primary antibody for 30 min at room temperature. A suggested positive control is tonsil or breast carcinoma.

Product Images For Stathmin 1 Monoclonal Antibody (SP49)

Stathmin 1 Antibody (MA5-16400)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HeLa cells were transfected with Stathmin 1 siRNA and decrease in signal intensity was observed in Western Blot application using Anti-Stathmin 1 Monoclonal Antibody (SP49) (Product # MA5-16400). {KD}

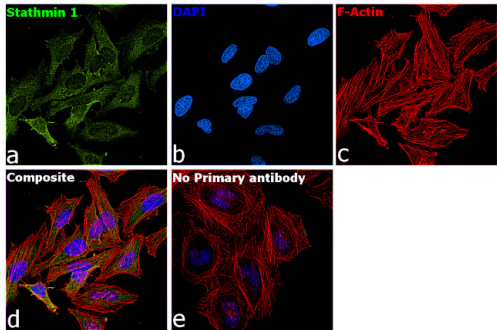


Stathmin 1 Antibody (MA5-16400) in WB

Western blot was performed using Anti-Stathmin 1 Monoclonal Antibody (SP49) (Product # MA5-16400) and a 17kDa band corresponding to Stathmin 1 was observed across cell lines and tissue tested. Whole cell extracts (30 µg lysate) of HeLa (Lane 1), PC-3 (Lane 2), MDA-MB-231 (Lane 3), U-2 OS (Lane 4), SH-SY5Y (Lane 5), Mouse Brain (Lane 6), Rat Brain (Lane 7), Mouse Thymus (Lane 8) were electrophoresed using NuPAGE™ 12% Bis-Tris Protein Gel (Product # NP0341BOX). 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 (1:300 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1: 6000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).

Stathmin 1 Antibody (MA5-16400) in ICC/IF

Immunofluorescence analysis of Stathmin 1 was performed using 70% confluent log phase HeLa 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 Stathmin 1 Monoclonal Antibody (SP49) (Product # MA5-16400) at 1:100 dilution 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 dilution), 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.



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