

# SIRT1 Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Non-human primate
Host/Isotope	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to the carboxy terminus of human SirT1
Form	Liquid
Purification	Antigen affinity chromatography
Storage buffer	0.01M HEPES, pH 7.5, with 0.15M NaCl, 100µg/mL BSA, 50% glycerol
Contains	no preservative
Storage Conditions	-20°C
RRID	AB_10985143

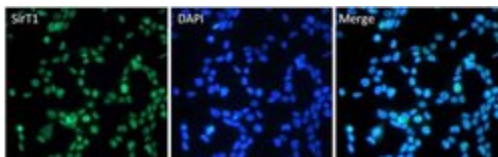
Applications	Tested Dilution	Publications
Immunocytochemistry (ICC)	1:100	-
Immunofluorescence (IF)	1:100	-
Immunoprecipitation (IP)	1:50	-
Western Blot (WB)	1:1000	-

## Product Specific Information

It is not recommended to aliquot this antibody.

This antibody is not cross-reactive with other sirtuin proteins.

## Product Images For SIRT1 Polyclonal Antibody

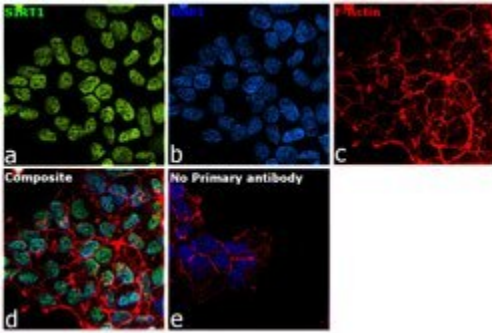


### SIRT1 Antibody (PA5-17232) in IF

Immunofluorescent analysis of SirT1 (green) HEK293T cells. Cells fixed in 4% formaldehyde were permeabilized and blocked with 1X PBS containing 5% BSA and 0.3% Triton X-100 for 1 hour at room temperature. Cells were probed with a SirT1 polyclonal antibody (Product # PA5-17232) at a dilution of 1:100 overnight at 4°C in 1X PBS containing 1% BSA and 0.3% Triton X-100, washed with 1X PBS, and incubated with a fluorophore-conjugated goat anti-rabbit IgG secondary antibody at a dilution of 1:200 for 1 hour at room temperature. Nuclei (blue) were stained with DAPI. Images were taken on a Leica DM1000 microscope at 40X magnification. Data courtesy of the Innovators Program.

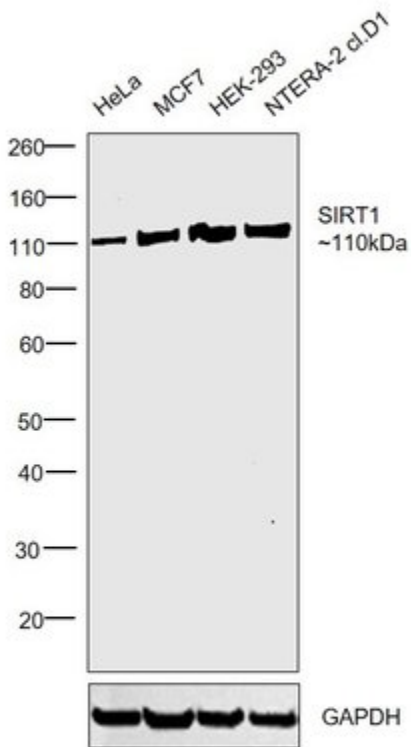
### SIRT1 Antibody (PA5-17232) in ICC

Immunofluorescence analysis of SIRT1 was performed using 70% confluent log phase HEK-293 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 1 hour at room temperature. The cells were labeled with SIRT1 Polyclonal Antibody (Product # PA5-17232) 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) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing predominantly nuclear localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



### SIRT1 Antibody (PA5-17232) in WB

Western blot was performed using Anti-SIRT1 Polyclonal Antibody (Product # PA5-17232) and a 110 kDa band corresponding to SIRT1 was observed in all cell lysates. Modified whole cell extracts (1% SDS) (30 µg lysate) of HeLa (Lane 1), MCF7 (Lane 2), HEK-293 (Lane 3) and NTERA-2 cl.D1 (Lane 4) were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris 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 (1:1000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (H+L), 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).



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