

14-3-3 sigma Polyclonal Antibody

Product Details

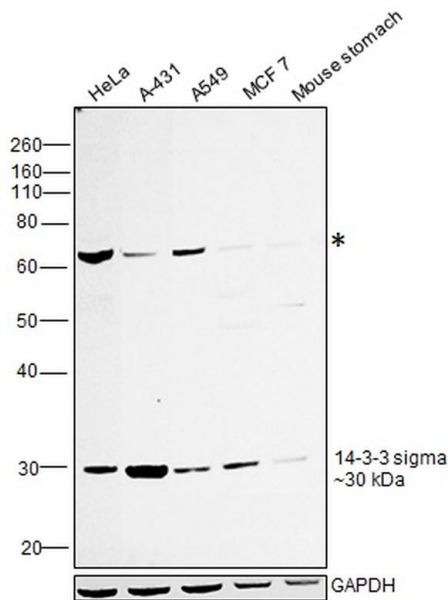
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human 14-3-3 sigma (140-156aa KKRIIDSARSAYQEAMD).
Form	Lyophilized
Concentration	500 µg/mL
Purification	Affinity chromatography
Storage buffer	PBS with 4mg trehalose
Contains	no preservative
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2806862

Applications	Tested Dilution	Publications
Western Blot (WB)	0.1-0.5 µg/mL	-
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	0.5-1 µg/mL	-
Immunocytochemistry (ICC/IF)	2 µg/mL	1 Publication
Flow Cytometry (Flow)	1-3 µg/1x10 ⁶ cells	-

Product Specific Information

Reconstitute with 0.2 mL of distilled water to yield a concentration of 500 µg/mL.

Product Images For 14-3-3 sigma Polyclonal Antibody

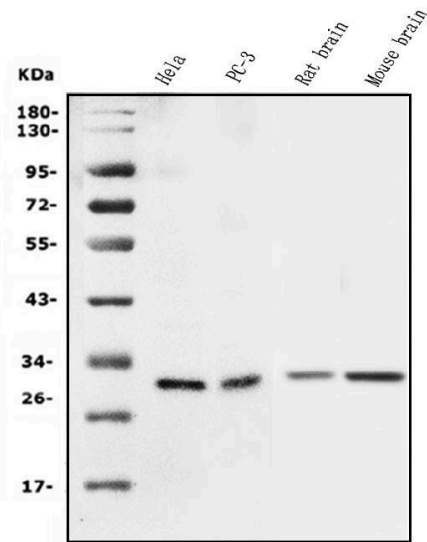


14-3-3 sigma Antibody (PA5-95056) in WB

Western blot was performed using Anti-14-3-3 sigma Polyclonal Antibody (Product # PA5-95056) and a 30 kDa band corresponding to 14-3-3 protein sigma, along with an uncharacterized band (*), was observed across cell lines and tissues tested. Whole cell extracts (40 µg lysate) of HeLa (Lane 1), A-431 (Lane 2), A549 (Lane 3), MCF7 (Lane 4) and tissue extract of Mouse Stomach (Lane 5) 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 (0.20 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).

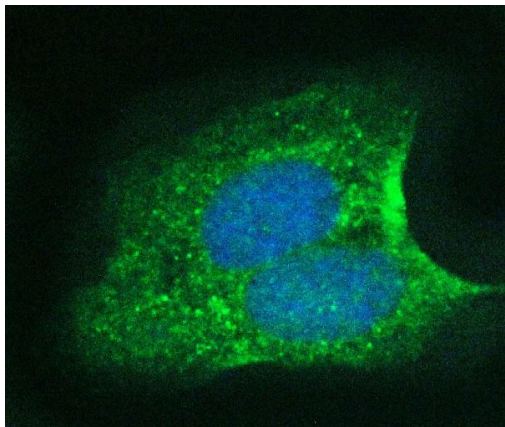
14-3-3 sigma Antibody (PA5-95056) in WB

Western blot analysis of SFN in, Lane 1: human HeLa whole cell lysates, Lane 2: human PC-3 whole cell lysates, Lane 3: rat brain tissue lysates, Lane 4: mouse brain tissue lysates. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50 µg of sample under reducing conditions. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. The membrane was blocked with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with 14-3-3 sigma Polyclonal Antibody (Product # PA5-95056) at 0.5 g/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit. A specific band was detected for SFN at approximately 28KD. The expected band size for SFN is at 28KD.



14-3-3 sigma Antibody (PA5-95056) in ICC/IF

Immunocytochemistry analysis of SFN using anti-SFN antibody (Product # PA5-95056) . SFN was detected in a section of U2OS cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum and then incubated with 2g/mL rabbit anti-SFN antibody (Product # PA5-95056) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



2 References

Immunohistochemistry (1)

iScience	Year 2022
Multi-apical polarity of alveolar stem cells and their dynamics during lung development and regeneration.	
"Published figure using 14-3-3 sigma polyclonal antibody (Product # PA5-95056) in Immunohistochemistry"	
Authors: Konkimalla A,Konishi S,Kobayashi Y,Kadur Lakshminarasimha Murthy P,Macadlo L,Mukherjee A,Elmore Z, Kim SJ,Pendergast AM, Lee PJ,Asokan A,Knudsen L,Bravo-Cordero JJ,Tata A,Tata PR	

Immunocytochemistry (1)

Nature cell biology	Year 2020
Persistence of a regeneration-associated, transitional alveolar epithelial cell state in pulmonary fibrosis.	
"PA5-95056 was used in Immunocytochemistry-Immunofluorescence to implicate a transient state associated with senescence in normal epithelial tissue repair and its abnormal persistence in disease conditions."	
Authors: Kobayashi Y,Tata A,Konkimalla A,Katsura H,Lee RF,Ou J,Banovich NE,Kropski JA,Tata PR	
	Species Mouse
	Dilution 1:200

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