

Datasheet for ABIN2854867

anti-14-3-3 sigma/SFN antibody

18 Images

1 Publication



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Overview

Quantity:	100 µL
Target:	14-3-3 sigma/SFN (SFN)
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This 14-3-3 sigma/SFN antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunoprecipitation (IP), Immunocytochemistry (ICC)

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human 14-3-3 sigma. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Characteristics:	Rabbit Polyclonal antibody to 14-3-3 sigma (stratifyn) 14-3-3 sigma antibody
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	14-3-3 sigma/SFN (SFN)
Alternative Name:	stratifyn (SFN Products)

Target Details

Background:	Adapter protein implicated in the regulation of a large spectrum of both general and specialized signaling pathway. Binds to a large number of partners, usually by recognition of a phosphoserine or phosphothreonine motif. Binding generally results in the modulation of the activity of the binding partner. When bound to KRT17, regulates protein synthesis and epithelial cell growth by stimulating Akt/mTOR pathway. p53-regulated inhibitor of G2/M progression. Cellular Localization: Cytoplasm , Nucleus , Secreted
Molecular Weight:	28 kDa
Gene ID:	2810
UniProt:	P31947
Pathways:	p53 Signaling , Myometrial Relaxation and Contraction

Application Details

Application Notes:	WB: 1:500-1:10000. ICC/IF: 1:100-1:1000. IHC-P: 1:100-1:1000. IP: 1:100-1:500. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Positive Control: A549 , 293T , A431 , HeLa , HepG2 , A375 , Neuro2A , GL261 , C8D30 Validation: Orthogonal
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.32 mg/mL
Buffer:	0.1M Tris-Glycine (pH 7), 10 % Glycerol, 0.01 % Thimerosal
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Publications

Product cited in: Manzione, Rombouts, Steklov, Pasquali, Sablina, Gelens, Qian, Bollen: "Co-regulation of the antagonistic RepoMan:Aurora-B pair in proliferating cells." in: **Molecular biology of the cell**, Vol. 31, Issue 6, pp. 419-438, (2020) ([PubMed](#)).

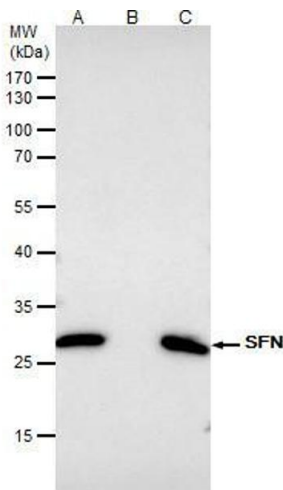
Huang, Zhang, Jiang, Zhang, Xiang, Ren: "FoxM1 Induced Paclitaxel Resistance via Activation of the FoxM1/PHB1/RAF-MEK-ERK Pathway and Enhancement of the ABCA2 Transporter." in: **Molecular therapy oncolytics**, Vol. 14, pp. 196-212, (2019) ([PubMed](#)).

Cohn, Feldman, Weil, Kublanovsky, Levy: "Chromatin associated SETD3 negatively regulates VEGF expression." in: **Scientific reports**, Vol. 6, pp. 37115, (2018) ([PubMed](#)).

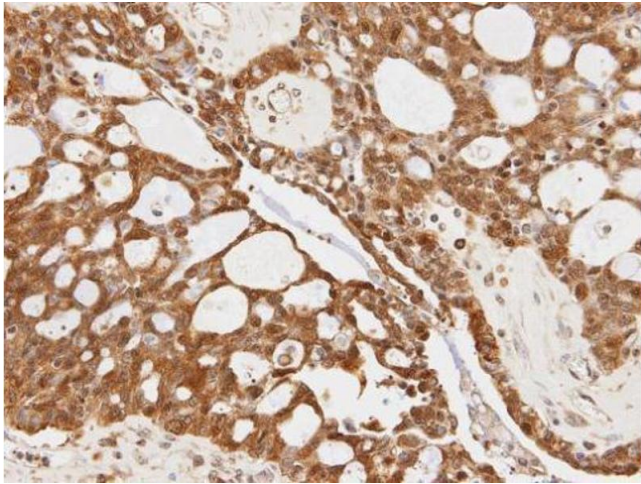
Xie, Wu, Mack, Yang, Kim, Hubert, Flavahan, Chu, Bao, Rich: "CDC20 maintains tumor initiating cells." in: **Oncotarget**, Vol. 6, Issue 15, pp. 13241-54, (2016) ([PubMed](#)).

Sanders, Ross-Innes, Beraldi, Carroll, Balasubramanian: "Genome-wide mapping of FOXM1 binding reveals co-binding with estrogen receptor alpha in breast cancer cells." in: **Genome biology**, Vol. 14, Issue 1, pp. R6, (2014) ([PubMed](#)).

Images

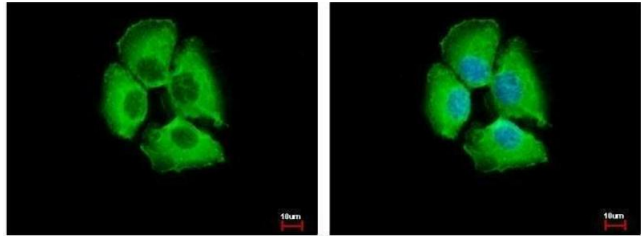


Immunoprecipitation			
Image 1.	IP	Image 14-3-3	sigma antibody
immunoprecipitates SFN protein in IP experiments. IP samples: A431 whole cell extract A. 40 µg A431 whole cell extract B. Control with 4 µg of preimmune Rabbit IgG C. Immunoprecipitation of SFN protein by 4 µg 14-3-3 sigma antibody , 5 % SDS-PAGE The immunoprecipitated SFN protein was detected by 14-3-3 sigma antibody , diluted at 1:500. [EasyBlot anti-rabbit IgG was used as a secondary reagent]			



Immunohistochemistry

Image 2. IHC-P Image Immunohistochemical analysis of paraffin-embedded OVCA xenograft, using 14-3-3 sigma, antibody at 1:100 dilution.



Immunofluorescence

Image 3. ICC/IF Image 14-3-3 sigma antibody detects 14-3-3 sigma protein at cytoplasm by immunofluorescent analysis. Sample: A431 cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: 14-3-3 sigma protein stained by 14-3-3 sigma antibody, diluted at 1:500. Blue: Hoechst 33343 staining.

Please check the [product details page](#) for more images. Overall 18 images are available for ABIN2854867.