Product datasheet

Anti-14-3-3 Sigma/SFN Antibody

Catalog Number: *A01127*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-14-3-3 Sigma/SFN Antibody
Gene Name	SFN
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, ICC/IF, FCM, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E. coli-derived human 14-3-3 sigma recombinant protein (Position: M1-S248).
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	28 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow Cytometry (Fixed): 1:50-200 Enzyme linked immunosorbent assay (ELISA): 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

Stratifin(SFN), also known as 14-3-3 protein sigma, is strongly induced by gamma irradiation and other DNA-damaging agents. The induction of 14-3-3-sigma is mediated by a p53 -responsive element located 1.8 kb upstream of its transcription start site. The protein, called stratifin, was shown to be diffusely distributed in the cytoplasm and was present in cultured epithelial cells. It was most abundant in tissues enriched in stratified keratinizing epithelium.

Selected Validation Data

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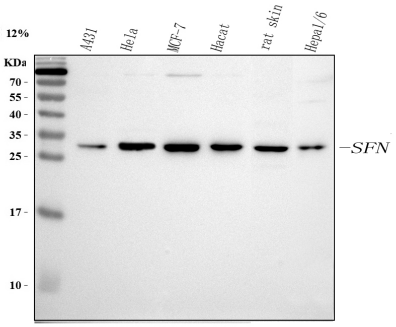
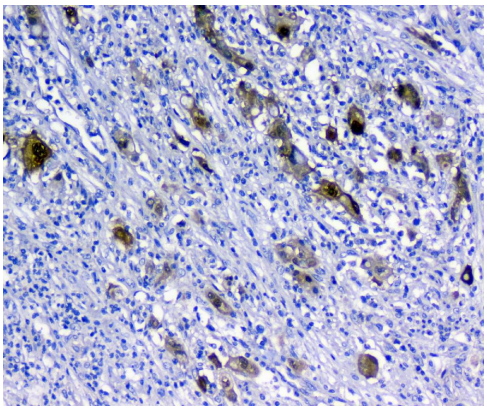


Western blot analysis of anti-14-3-3 Sigma/SFN antibody (A01127). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human A431 whole cell lysates,
Lane 2: human Hela whole cell lysates,
Lane 3: human MCF-7 whole cell lysates,
Lane 4: human Hacat whole cell lysates,
Lane 1: rat skin tissue lysates,
Lane 2: mouse Hepa1-6 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-14-3-3 Sigma/SFN antigen affinity purified polyclonal antibody (A01127) and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for 14-3-3 Sigma/SFN at approximately 28 kDa. The expected band size for 14-3-3 Sigma/SFN is at 28 kDa.



IHC analysis of 14-3-3 Sigma/SFN using anti-14-3-3 Sigma/SFN antibody (A01127).
14-3-3 Sigma/SFN was detected in a paraffin-embedded section of human rectal cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-14-3-3 Sigma/SFN Antibody (A01127) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.

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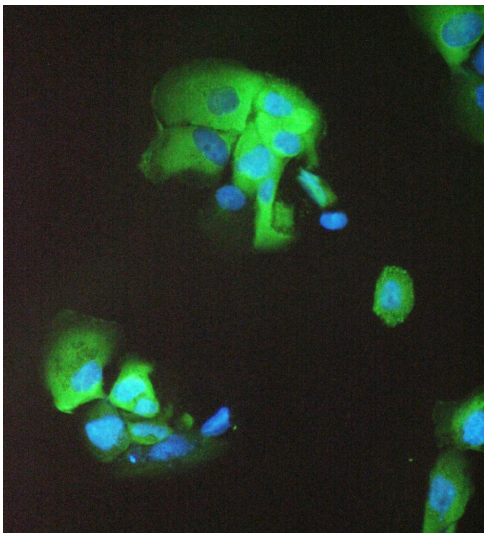
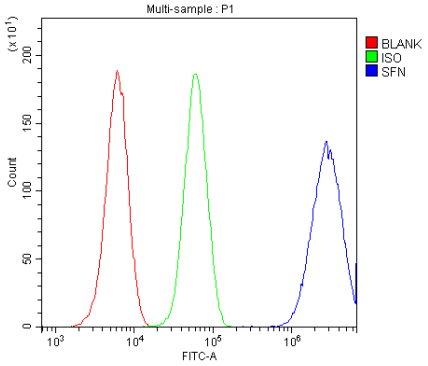


ICC/IF analysis of 14-3-3 sigma using anti- 14-3-3 sigma antibody (A01127). 14-3-3 sigma was detected in paraffin-embedded section of A431 cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2µg/mL rabbit anti- cortactin Antibody (A01127) . Fluoro488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody Visualize using a fluorescence microscope and filter sets appropriate for the label used.



Flow Cytometry analysis of U2OS cells using anti-14-3-3 Sigma/SFN antibody (A01127).
Overlay histogram showing U2OS cells stained with A01127 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-14-3-3 Sigma/SFN Antibody (A01127) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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