Product datasheet

Anti-14-3-3 Sigma/SFN Antibody

Catalog Number: *BA3752*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd and 4th floors, Optics Valley Biomedical 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
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human 14-3-3 sigma, identical to the related rat and mouse sequences.
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

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

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. Leffers et al.(1993)obtained peptide sequence and subsequently cloned a T-cell cDNA of the 14-3-3 family of conserved proteins. 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.

Reference

Anti-14-3-3 Sigma/SFN Antibody被引用在2文献中。

Selected Validation Data

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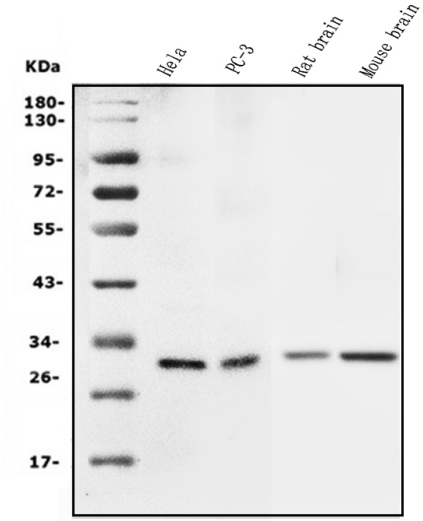

Figure 1. Western blot analysis of Anti-SFN antibody (BA3752). The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: HELA whole cell lysates,Lane 2: PC-3 whole cell lysates,Lane 3: rat brain tissue lysates,Lane 4: mouse brain tissue lysates,Use rabbit Anti-SFN 1:1000, probed with a goat Anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for SFN at approximately 28KD. The expected band size for SFN is at 28KD.

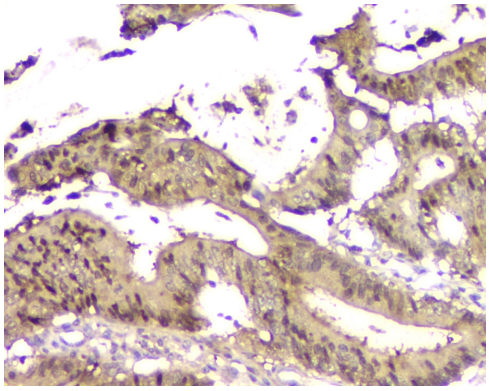

Figure 2. IHC analysis using Anti-SFN antibody (BA3752) detected in paraffin-embedded section of human intestinal cancer tissue. Biotinylated goat Anti-rabbit IgG was used as secondary antibody. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

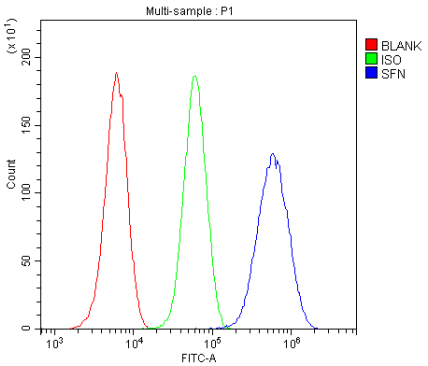

Figure 7. Flow cytometry analysis of U2OS cell (1:100) DyLight 488 conjugated goat anti-rabbit IgG(blue) was used as secondary antibody. Isotype control antibody (Green line) was rabbit IgG DyLight 488. Unlabelled sample (Red line).

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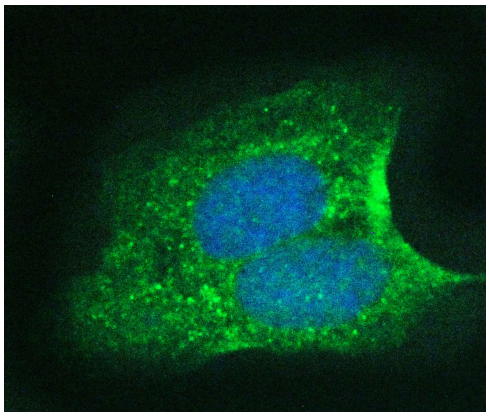

Figure 5. ICC analysis using anti- SFN antibody (BA3752). was detected in immersion fixed U2OS cell line . Cells were stained using the Dylight488-conjugated Anti-rabbit IgG Secondary Antibody (green)(Catalog#BA1127) and counterstained with DAPI (blue).