

Basic Information

Product Name	Anti-14-3-3 Sigma/SFN Antibody	
Gene Name	SFN	
Source	Rabbit	
Isotype	IgG	
Species Reactivity	human,mouse,rat	
Tested Application	WB,IHC,IF,FCM,ICC,IHC-F,ELISA	
Contents	500 ug/ml antibody with PBS , 0.02% NaN ₃ , 1 mg 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	28KD	
Dilution Ratios	Western blot (WB):	1:500-2000
	Immunohistochemistry in paraffin section (IHC):	1:50-400
	Immunohistochemistry in frozen section:	1:50-400
	Immunocytochemistry in fixed cells:	1:50-400
	Flow cytometry (FCM):	1-3 µg/1x10 ⁶ cells
	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°C as supplied. 6 months 2 to 8°C 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. 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

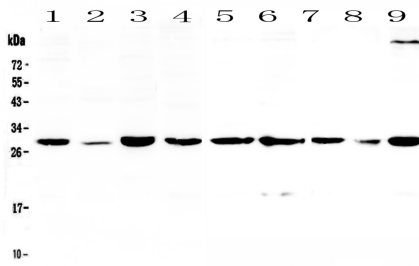


Figure 1. Western blot analysis of 14-3-3 sigma using anti-14-3-3 sigma antibody (A01127). Lane 1: human Hela cell lysate, Lane 2: human placenta tissue lysate, Lane 3: human MCF-7 cell lysate, Lane 4: human 22RV1 cell lysate, Lane 5: rat tongue tissue lysate, Lane 6: rat lung tissue lysate, Lane 7: rat PC-12 cell lysate, Lane 8: mouse lung tissue lysate, Lane 9: mouse HEPA1-6 cell lysate, Lane 10: mouse NIH3T3 cell lysate. anti-14-3-3 sigma antigen affinity purified polyclonal antibody (Catalog # A01127) 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 14-3-3 sigma at approximately 28 kDa. The expected band size for 14-3-3 sigma is at 28 kDa.

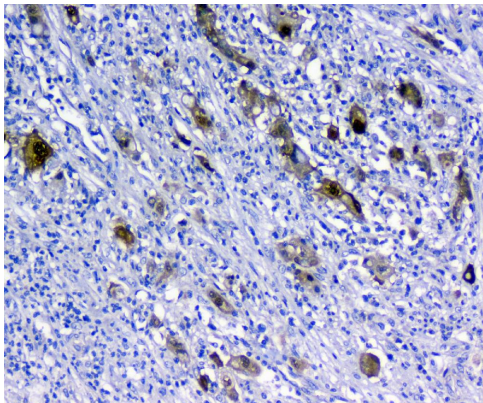


Figure 2. IHC analysis of 14-3-3 sigma using anti-14-3-3 sigma antibody (A01127). 14-3-3 sigma was detected in paraffin-embedded section of human rectal cancer tissues. anti-14-3-3 sigma Antibody (A01127). Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

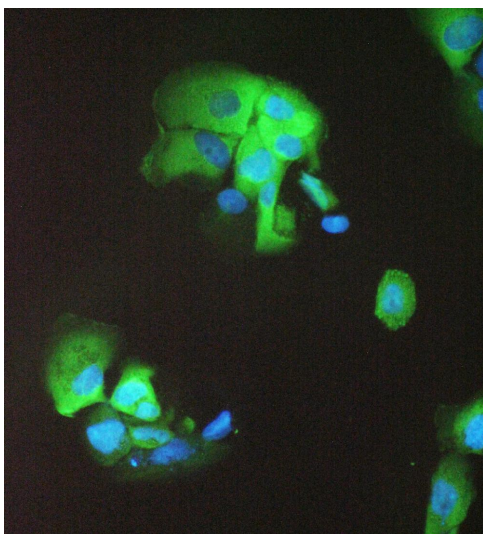


Figure 3. IF analysis of 14-3-3 sigma using anti-14-3-3 sigma antibody (A01127). 14-3-3 sigma was detected in paraffin-embedded section of A431 cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 μg/mL rabbit anti-cortactin Antibody (A01127). DyLight488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody. Visualize using a fluorescence microscope and filter sets appropriate for the label used.