

## 11-1020: Polyclonal Antibody to 14-3-3 sigma

<b>Clonality :</b>	Polyclonal
<b>Application :</b>	IHC,WB
<b>Reactivity :</b>	Human
<b>Gene :</b>	SFN
<b>Gene ID :</b>	2810
<b>Uniprot ID :</b>	P31947
<b>Format :</b>	Purified
<b>Alternative Name :</b>	SFN,HME1
<b>Isotype :</b>	Rabbit IgG

**Immunogen Information :** Full length recombinant 14-3-3 sigma protein was used as the immunogen for this antibody.

### Description

14-3-3 sigma is a member of a highly conserved family of 14-3-3 proteins that are present in all eukaryotic organisms. There are 7 known human 14-3-3 isotypes and they play important roles in many biological activities by binding to and altering the subcellular localization and/or stability of key molecules in various signaling cascades. 14-3-3 sigma was originally characterized as a human mammary epithelium marker 1 and later rediscovered as an important molecule for cell cycle checkpoint regulation. Recently it has been reported that 14-3-3 sigma may serve as a prognosis marker predicting survival of pancreatic cancer patient treatment. 14-3-3 $\sigma$  is the only 14-3-3 isoform induced by the tumor suppressor protein p53, in response to  $\gamma$ -irradiation and other DNA-damaging agents. 14-3-3 $\sigma$  is a p53-regulated inhibitor of G2/M progression and acts as a tumor suppressor gene that is inactivated by methylation of its 5' CpG islands in epithelial tumor cells. Two isoforms of the human proteins are produced by alternative splicing.

### Product Info

<b>Amount :</b>	25 $\mu$ g / 100 $\mu$ g
<b>Purification :</b>	Protein A Chromatography
<b>Content :</b>	25 $\mu$ g in 50 $\mu$ l/100 $\mu$ g in 200 $\mu$ l PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
<b>Storage condition :</b>	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

### Application Note

Western blot analysis: 1-3  $\mu$ g/ml, Immunohistochemical analysis: 10  $\mu$ g/ml

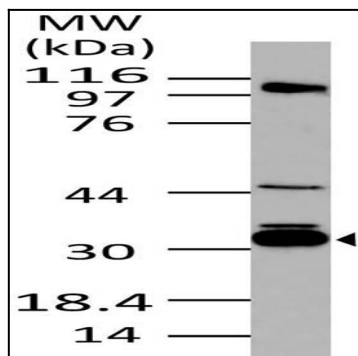


Fig-1: Western blot analysis of 14-3-3 sigma . Anti- 14-3-3 sigma antibody (11-1020) was used at 1 µg/ml on Molt-4 lysate.

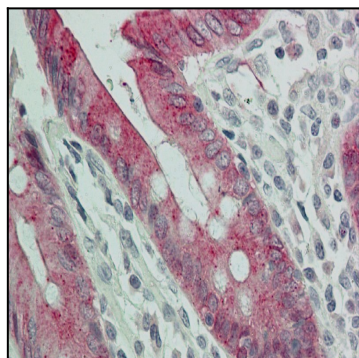


Fig-2: Immunohistochemical analysis of 14-3-3 sigma. Anti-14-3-3 sigma antibody (11-1020) in human Colon tissue at 10 µg/ml.

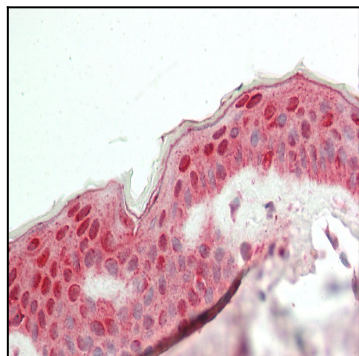


Fig-3 : Immunohistochemical analysis of 14-3-3 sigma. Anti-14-3-3 sigma antibody (11-1020) in human Skin tissue at 10 µg/ml.