For Research Use Only

Sestrin 2 Monoclonal antibody

Catalog Number:66297-1-lg Featured Product

15 Publications



Basic Information

Catalog Number: GenBank Accession Number:

66297-1-lg BC013304 GeneID (NCBI): Size:

150ul , Concentration: 2800 $\mu g/ml$ by 83667 Nanodrop and 2000 µg/ml by Bradford_{UNIPROT ID:} method using BSA as the standard; P58004

Source: Full Name: Mouse sestrin 2 Isotype: Calculated MW: lgG1 54 kDa

Immunogen Catalog Number: Observed MW: AG20638 54 kDa

Purification Method:

Protein G purification

CloneNo.: 1A1A4

Recommended Dilutions:

WB 1:1000-1:4000 IHC 1:50-1:500 IF 1:200-1:800

Applications

Tested Applications: WB, IF, IHC, ELISA

Cited Applications: WB, IP, IF, IHC, CoIP Species Specificity:

human, pig, rat **Cited Species:**

human, rat, mouse, pig, bovine

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: HeLa cells, HEK-293T IHC: human colon cancer tissue,

IF: HeLa cells,

Background Information

Sestrins, including sestrin-1 (PA26), sestrin-2 (Hi95), and sestrin-3, are 48 to 65 kDa cystein sulfinyl reductases and they modulate peroxide signaling and antioxidant defense. These proteins selectively reduce or repair hyperoxidized forms of typical 2-Cvs peroxiredoxins within eukaryotes. Expression of these proteins is regulated by p53, a tumor suppressor protein. Sestrin 2 is implicated in the regulation of cell survival, in cellular responses to a survival of the regulation of cell survival of the regulation of cell survival of the regulation of cell survival of the regulation of the regulation of cell survival of the regulation of the regudifferent stress conditions, and also acts as a positive regulator of autophagy. Sestrin 2 is approximately a 57.6kDa protein (480 amino acids).

Notable Publications

Author	Pubmed ID	Journal	Application
T Shen	27693501	Osteoarthritis Cartilage	WB,IHC
Jinghui Yang	36306010	Neurochem Res	IF
Sumin Lee	34797495	Arch Pharm Res	WB

Storage

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

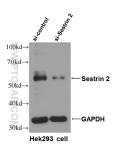
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

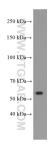
E: proteintech@ptglab.com W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

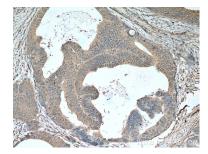
Selected Validation Data



WB result of Sestrin 2 antibody (66297-1-lg, 1:500) with si-control and si-Sestrin 2 transfected Hek293 cells.



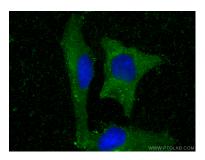
HeLa cells were subjected to SDS PAGE followed by western blot with 66297-1-1g (Sestrin2 Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 66297-1-Ig (Sestrin2 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 66297-1-1g (Sestrin2 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using Sestrin 2 antibody (66297-1-lg, Clone: 1A1A4) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).