

For Research Use Only

Sestrin 2 Monoclonal antibody

Catalog Number: 66297-1-Ig

Featured Product

14 Publications



Basic Information

Catalog Number: 66297-1-Ig	GenBank Accession Number: BC013304	Purification Method: Protein G purification
Size: 150ul, Concentration: 2800 µg/ml by Nanodrop and 2000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 83667	CloneNo.: 1A1A4
Source: Mouse	Full Name: sestrin 2	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:50-1:500 IF 1:200-1:800
Isotype: IgG1	Calculated MW: 54 kDa	
Immunogen Catalog Number: AG20638	Observed MW: 54 kDa	

Applications

Tested Applications:

IF, IHC, WB, ELISA

Cited Applications:

CoIP, IF, IHC, IP, WB

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 cysteine sulfinyl reductases and they modulate peroxide signaling and antioxidant defense. These proteins selectively reduce or repair hyperoxidized forms of typical 2-Cys 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 different 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

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

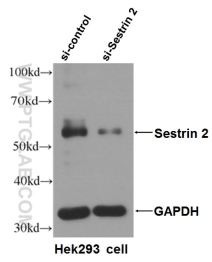
For technical support and original validation data for this product please contact:

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

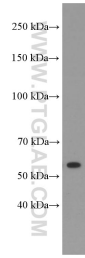
E: proteintech@ptglab.com
W: ptglab.com

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

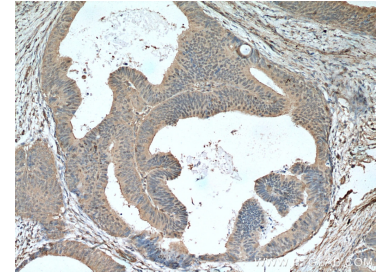
Selected Validation Data



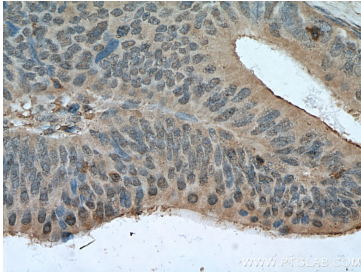
WB result of Sestrin 2 antibody (66297-1-Ig, 1:500) with si-control and si-Sestrin 2 transfected Hek293 cells.



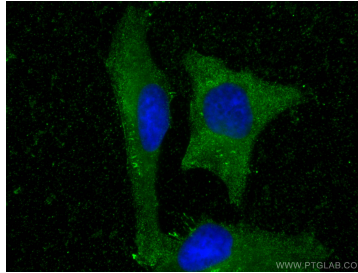
HeLa cells were subjected to SDS PAGE followed by western blot with 66297-1-Ig (Sestrin2 Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded 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 paraffin-embedded human colon cancer tissue slide using 66297-1-Ig (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-Ig, Clone: 1A1A4) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).