

For Research Use Only

Sestrin 2 Monoclonal antibody

Catalog Number: 66297-1-Ig

Featured Product

16 Publications



Basic Information

Catalog Number:

66297-1-Ig

Size:

150ul, Concentration: 2800 ug/ml by Nanodrop and 2000 ug/ml by Bradford method using BSA as the standard;

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG20638

GenBank Accession Number:

BC013304

GeneID (NCBI):

83667

UNIPROT ID:

P58004

Full Name:

sestrin 2

Calculated MW:

54 kDa

Observed MW:

54 kDa

Purification Method:

Protein G purification

CloneNo.:

1A1A4

Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:50-1:500

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, 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/ICC : 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

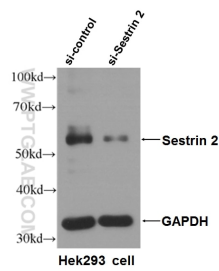
For technical support and original validation data for this product please contact:

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

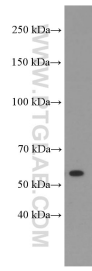
E: proteintech@ptglab.com
W: ptglab.com

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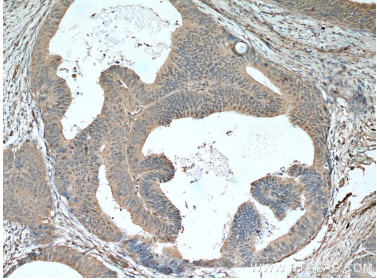
Selected Validation Data



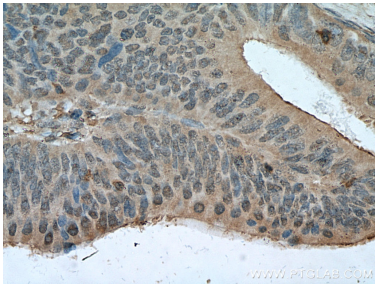
WB result of Sestrin 2 antibody (66297-1-Ig, 1:500) with si-control and si-Sestrin 2 transfected Hek293 cells.



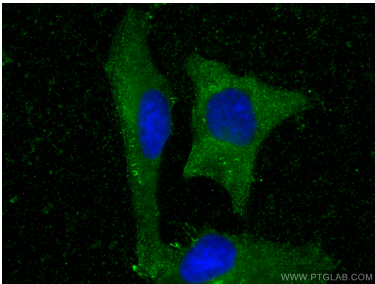
HeLa cells were subjected to SDS PAGE followed by western blot with 66297-1-Ig (Sestrin2 Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



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).