

For Research Use Only

Sestrin 2 Polyclonal antibody

Catalog Number: 21346-1-AP

Featured Product

13 Publications



Basic Information

Catalog Number:

21346-1-AP

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG15669

GenBank Accession Number:

NM_031459

GeneID (NCBI):

83667

UNIPROT ID:

P58004

Full Name:

sestrin 2

Calculated MW:

480 aa, 54 kDa

Observed MW:

60-66 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:1000-1:4000

IF/ICC: 1:200-1:800

Applications

Tested Applications:

WB, IF/ICC, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat

Positive Controls:

WB : mouse thymus tissue, HEK-293 cells, HeLa cells, K-562 cells, mouse lung tissue, NIH/3T3 cells

IF/ICC : U2OS 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 growth and 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
Maria Manifava	27725083	Elife	WB
Yi-Sheng Hou	26031332	Mol Cell Biol	WB
Xudan Shi	27425892	Neurobiol Dis	IF

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

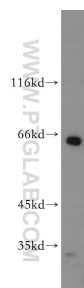
T: 4006900926

E: Proteintech-CN@ptglab.com

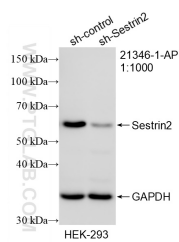
W: ptgcn.com

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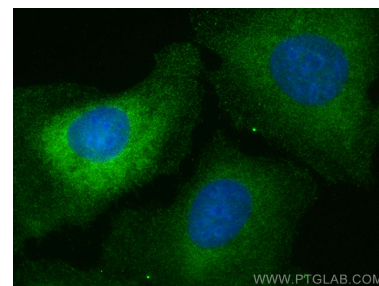
Selected Validation Data



mouse thymus tissue were subjected to SDS PAGE followed by western blot with 21346-1-AP (Sestrin 2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



WB result of Sestrin 2 antibody (21346-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Sestrin 2 transfected HEK-293 cells.



Immunofluorescent analysis of (-20°C Methanol) fixed U2OS cells using Sestrin 2 antibody (21346-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).