

For Research Use Only

# Sestrin 2 Polyclonal antibody

Catalog Number: 21346-1-AP

Featured Product

13 Publications



## Basic Information

### Catalog Number:

21346-1-AP

### Size:

150ul, Concentration: 300 ug/ml by Nanodrop and 227 ug/ml by Bradford method using BSA as the standard;

### 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, 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 cystein 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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

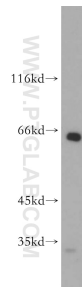
For technical support and original validation data for this product please contact:

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

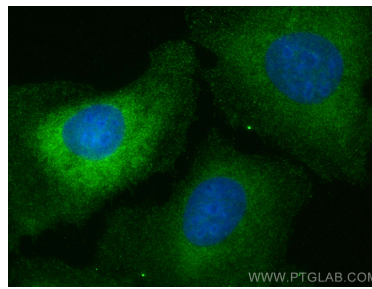
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## Selected Validation Data



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.



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).