

For Research Use Only

# Sestrin 2 Polyclonal ANTIBODY



Catalog Number: 10795-1-AP

Featured Product

70 Publications

## Basic Information

Catalog Number:  
10795-1-AP

Size:  
72 µg/150 µl

Source:  
Rabbit

Isotype:  
IgG

Purification Method:  
Antigen affinity purification

Immunogen Catalog Number:  
AG1247

GenBank Accession Number:  
BC013304

GeneID (NCBI):  
83667

Full Name:  
sestrin 2

Calculated MW:  
54 kDa

Observed MW:  
54-60 kDa

Recommended Dilutions:

WB 1:500-1:5000

IP 1:500-1:5000

IHC 1:100-1:400

IF 1:10-1:100

## Applications

Tested Applications:  
ELISA, WB, IF, IP, IHC

Cited Applications:  
FC, IF, IHC, IP, WB

Species Specificity:  
human,mouse,rat

Cited Species:  
human, mouse, rat

Positive Controls:

WB : HEK-293 cells; HEK-293

IP : K-562 cells;

IHC : human colon cancer tissue; human breast cancer tissue, human colon cancer tissue, human ovary tumor tissue

IF : HeLa cells;

## Background Information

SESN is a family of highly conserved, stress-inducible genes that can defend the cell against oxidative damage and oncogenic signaling. SESN2, which belongs to the SESN family, has been implicated as a tumor suppressor that can inhibit angiogenesis and promote autophagy, underscoring the importance of elucidating the molecular mechanism by which SESN2 regulates pathways of metabolism and survival (PMID:22363791). Sestrin2 encodes a 480 amino acid protein which can run as a 60 kDa band on SDS-polyacrylamide gel electrophoresis (PMID:20878915).

## Notable Publications

Author	Pubmed ID	Journal	Application
Min Peng	25259925	Cell	WB
Scot R Kimball	26400964	J Nutr	WB
Stuti Agarwal	26385560	Mol Cancer Res	WB, IF

## Storage

Storage:

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

Storage Buffer:

PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

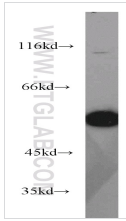
For technical support and original validation data for this product please contact:

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

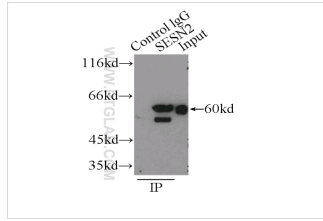
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

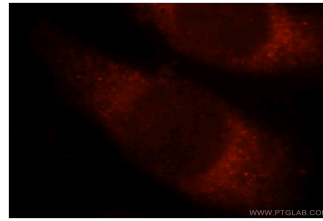
## Selected Validation Data



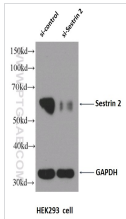
HEK-293 cells were subjected to SDS PAGE followed by western blot with 10795-1-AP(Sestrin2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours



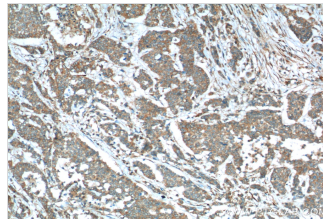
IP Result of anti-Sestrin2 (IP:10795-1-AP; 3ug; Detection:10795-1-AP 1:1000) with K-562 cells lysate 4000ug.



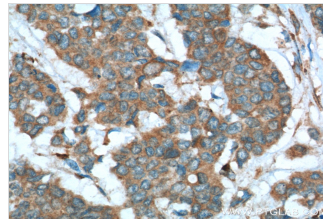
Immunofluorescent analysis of HeLa cells, using Sestrin2 antibody 10795-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



WB result of Sestrin antibody (10795-1-AP; 1:2000) with si-Control and si-Sestrin transfected HEK293 cells.



Immunohistochemistry of paraffin-embedded human colon cancer tissue slide using 10795-1-AP( Sestrin2 Antibody) at dilution of 1:200 (under 10x lens). heat mediated antigen retrieved with Tris-EDTA buffer(pH9).



Immunohistochemistry of paraffin-embedded human colon cancer tissue slide using 10795-1-AP( Sestrin2 Antibody) at dilution of 1:200 (under 40x lens). heat mediated antigen retrieved with Tris-EDTA buffer(pH9).