

# Sestrin 2

## Polyclonal ANTIBODY

Catalog Number: 10795-1-AP

Featured Product

80 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 1:500-1:2000

IP 0.5-4.0 µg for IP and 1:500-1:2000 for WB

IHC 1:100-1:400

IF 1:10-1:100

### Applications

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

**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 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	Mbl 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

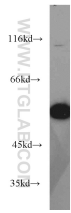
For technical support and original validation data for this product please contact:

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

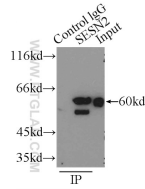
E: proteintech@ptglab.com  
W: ptglab.com

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

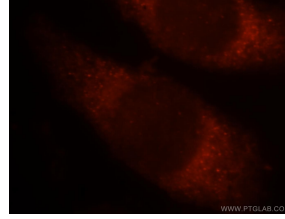
## Selected Validation Data



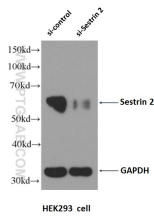
HEK-293 cells were subjected to SDS PAGE followed by western blot with 10795-1-AP (Sestrin 2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours



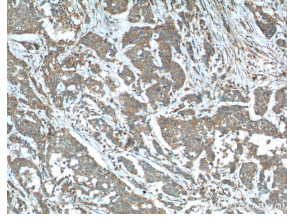
IP Result of anti-Sestrin 2 (IP: 10795-1-AP 3 $\mu$ g; Detection: 10795-1-AP 1:1000) with K-562 cells lysate 4000 $\mu$ g.



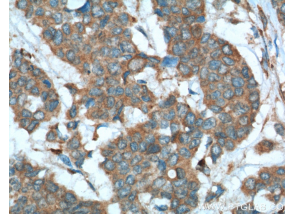
Immunofluorescent analysis of HeLa cells, using SESN2 antibody 10795-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



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 2 cancer tissue slide using 10795-1-AP (Sestrin 2 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 (Sestrin 2 antibody at dilution of 1:200 (under 40x lens), heat mediated antigen retrieved with Tris-EDTA buffer (pH9).