

For Research Use Only

# Sestrin 2 Polyclonal antibody

Catalog Number: 10795-1-AP

Featured Product

216 Publications



## Basic Information

### Catalog Number:

10795-1-AP

### Concentration:

750 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1247

### GenBank Accession Number:

BC013304

### GeneID (NCBI):

83667

### UNIPROT ID:

P58004

### Full Name:

sestrin 2

### Calculated MW:

54 kDa

### Observed MW:

54-60 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:2000-1:12000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:200-1:800

IF-P: 1:50-1:500

IF/ICC: 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IF-P, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP, CoIP

### Species Specificity:

human, mouse

### Cited Species:

human, mouse, rat, 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**: HEK-293 cells, human liver tissue, human brain tissue, NIH/3T3 cells, rat liver tissue, HeLa cells, K-562 cells, mouse kidney tissue, A2780 cells, RAW 264.7 cells

**IP**: K-562 cells,

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

**IF-P**: mouse kidney tissue,

**IF/ICC**: 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). Sesn2 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          |
| Jae Kwang Kim  | 36290574  | Antioxidants (Basel) |             |

## 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:

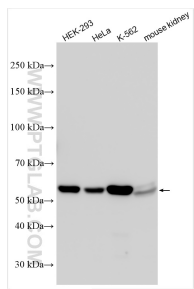
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

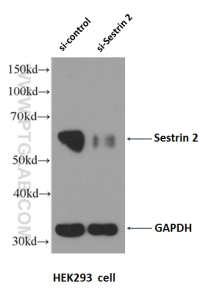
W: [ptgcn.com](http://ptgcn.com)

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

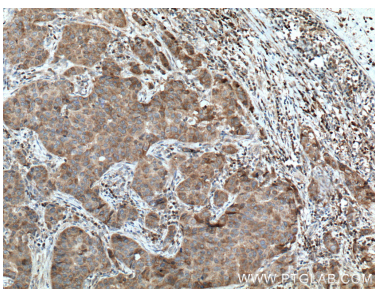
Selected Validation Data



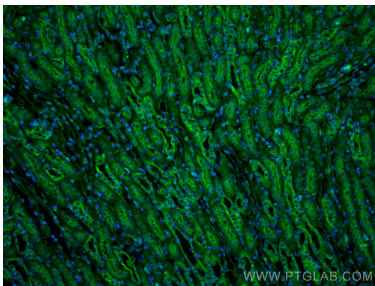
Various lysates were subjected to SDS PAGE followed by western blot with 10795-1-AP (Sestrin 2 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



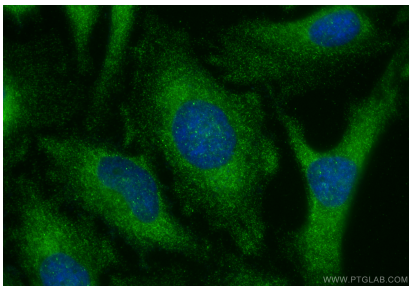
WB result of Sestrin antibody (10795-1-AP, 1:2000) with si-Control and si-Sestrin transfected HEK293 cells.



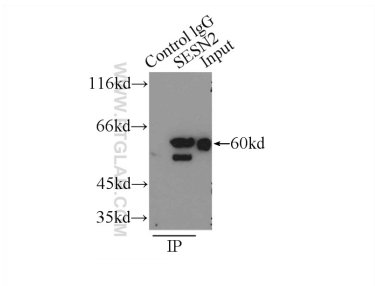
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10795-1-AP (Sestrin 2 antibody) at dilution of 1:400 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse kidney tissue using Sestrin 2 antibody (10795-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using Sestrin 2 antibody (10795-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



IP result of anti-Sestrin 2 (IP:10795-1-AP, 3ug; Detection:10795-1-AP 1:1000) with K-562 cells lysate 4000ug.