

Sestrin 2

Polyclonal ANTIBODY

Catalog Number: 10795-1-AP

Featured Product

86 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 ug for IP and 1:500-1:2000 for WB

IHC 1:200-1:800

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

Note: 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; HEK-293

IP : K-562 cells;

IHC : 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
Mn Peng	25259925	Cell	WB
Scott 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

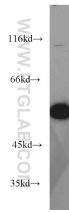
For technical support and original validation data for this product please contact:

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

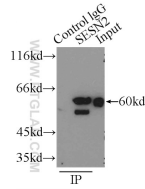
E: proteintech@ptglab.com
W: ptglab.com

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

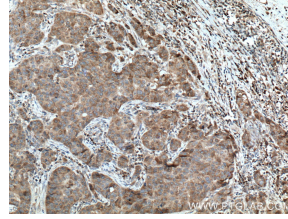
Selected Validation Data



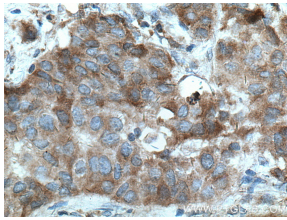
HEK293 cells were subjected to SDS PAGE followed by western blot with 10795-1-AP (Sestrin 2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours



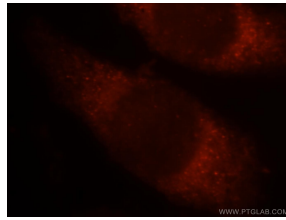
IP Result of anti-Sestrin 2 (IP: 10795-1-AP, 3 μ g; Detection: 10795-1-AP 1:1000) with K-562 cells lysate 4000 μ g.



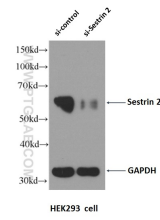
Immunohistochemistry of paraffin-embedded human breast cancer tissue slide using 10795-1-AP (Sestrin 2 antibody) at dilution of 1:400 (under 10x lens) heat mediated antigen retrieved with Tris-EDTA buffer (pH9).



Immunohistochemistry of paraffin-embedded human breast cancer tissue slide using 10795-1-AP (Sestrin 2 antibody) at dilution of 1:400 (under 40x lens) heat mediated antigen retrieved with Tris-EDTA buffer (pH9).



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.