

For Research Use Only

Sestrin 2 Polyclonal antibody

Catalog Number: 10795-1-AP

Featured Product

193 Publications



Basic Information

Catalog Number:

10795-1-AP

Size:

150ul, Concentration: 750 µg/ml by Nanodrop and 353 µg/ml by Bradford method using BSA as the standard;

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 1:50-1:500

Applications

Tested Applications:

WB, IP, IF, IHC, ELISA

Cited Applications:

WB, IP, IF, FC, IHC, CoIP

Species Specificity:

human, mouse

Cited Species:

human, rat, mouse, 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 : mouse kidney tissue, 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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

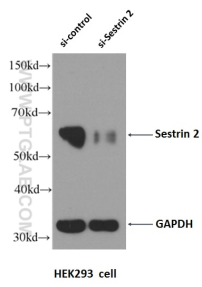
For technical support and original validation data for this product please contact:

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

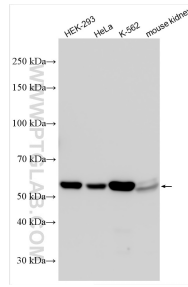
E: proteintech@ptglab.com
W: ptglab.com

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

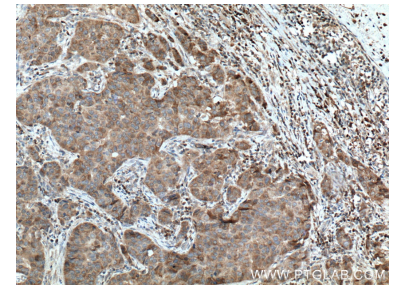
Selected Validation Data



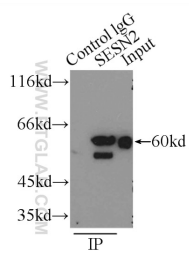
WB result of Sestrin antibody (10795-1-AP, 1:2000) with si-Control and si-Sestrin transfected HEK293 cells.



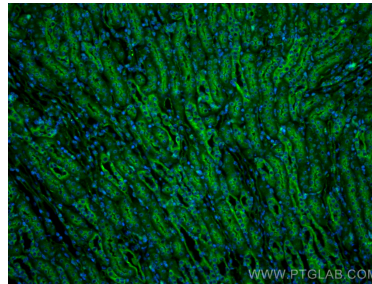
Various lysates were subjected to SDS PAGE followed by western blot with 10795-1-AP (Sestrin 2 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



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).



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



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).