

For Research Use Only

SESN3 Recombinant antibody

Catalog Number: 84823-3-RR



Basic Information

Catalog Number: 84823-3-RR	GenBank Accession Number: BC017296	Purification Method: Protein A purification
Size: 100ul, Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 143686	CloneNo.: 242189D1
Source: Rabbit	UNIPROT ID: P58005	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000 IF/ICC 1:250-1:1000
Isotype: IgG	Full Name: sestrin 3	
Immunogen Catalog Number: AG17872	Calculated MW: 492 aa, 57 kDa	
	Observed MW: 57-60 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Species Specificity:
human

**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 : A549 cells, A431 cells, HepG2 cells, HEK-293 cells

IHC : mouse liver tissue,

IF/ICC : HepG2 cells,

Background Information

Sestrins, including sestrin-1 (PA26), sestrin-2 (Hi95), and sestrin-3, are 48 to 65 kDa cystein sulfinyl reductases and modulate peroxide signaling and antioxidant defense. These proteins selectively reduce or repair hyperoxidized forms of typical 2-Cys peroxiredoxins within eukaryotes. Expression of these proteins is regulated by p53, a tumor suppressor protein. Sestrin 3 was identified as a forkhead box O (FoxO) target gene with antioxidant activity. Recently it was reported that sestrin 3 may play an important role in AKT-induced increase in ROS. It might be a promising target in selectively killing cancer cells with high AKT activity levels.

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**

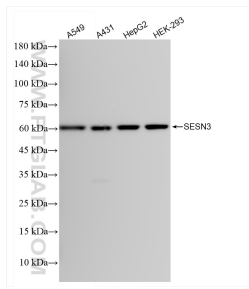
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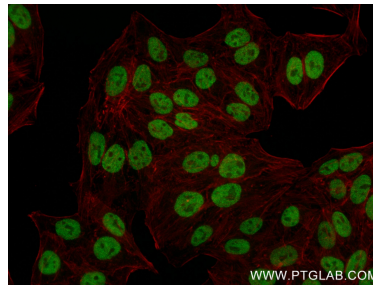
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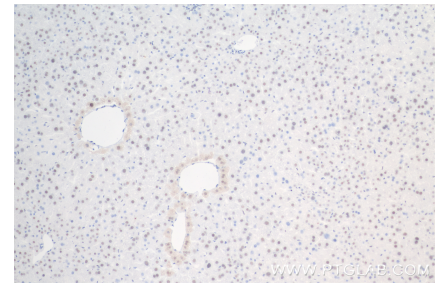
Selected Validation Data



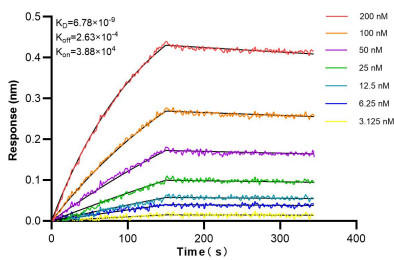
Various lysates were subjected to SDS PAGE followed by western blot with 84823-3-RR (SESN3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using SESN3 antibody (84823-3-RR, Clone: 242189D1) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 84823-3-RR (SESN3 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Bi-layer interferometry (BLI) kinetic assays of 84823-3-RR against Human SESN3 were performed. The affinity constant is 6.78 nM.