

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: 1000 µg/ml	GeneID (NCBI): 143686	CloneNo.: 242189D1
Source: Rabbit	UNIPROT ID: P58005	Recommended Dilutions: WB 1:5000-1:50000
Isotype: IgG	Full Name: sestrin 3	IHC 1:500-1:2000
Immunogen Catalog Number: AG17872	Calculated MW: 492 aa, 57 kDa	IF/ICC 1:250-1:1000
	Observed MW: 57-60 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Species Specificity: human	WB: A549 cells, A431 cells, HepG2 cells, HEK-293 cells
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0 ; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	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 cysteine 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

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

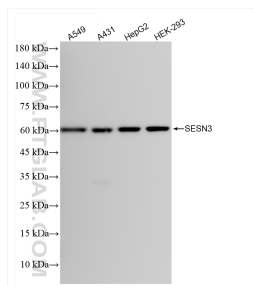
T: 4006900926

E: Proteintech-CN@ptglab.com

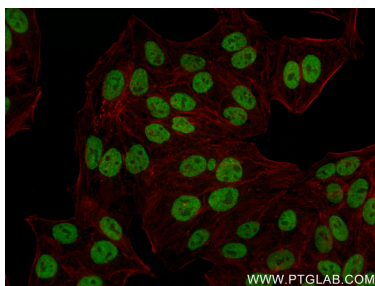
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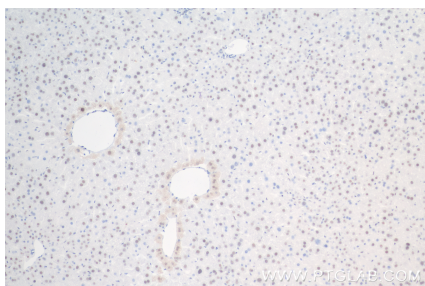
Selected Validation Data



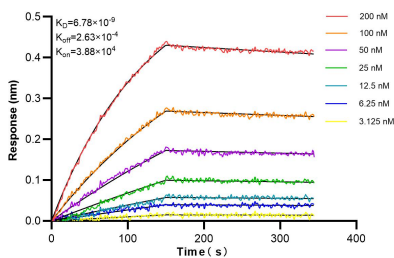
Various lysates were subjected to SDS PAGE followed by western blot with 84823-3-RR (SESN3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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).



Bioluminescence resonance energy transfer (BRET) kinetic assays of 84823-3-RR against Human SESN3 were performed. The affinity constant is 6.78 nM.