SESN3 Polyclonal antibody

Catalog Number:24532-1-AP

Featured Product **2 Publications**

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Basic Information

Catalog Number:
24532-1-AP

Size:
600 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG21380

GenBank Accession Number:
BC017296

GeneID (NCBI):
143686

UNIPROT ID:
P58005

Full Name:
sestrin 3

Calculated MW:
492 aa, 57 kDa

Observed MW:
57 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000

Applications

Tested Applications:
WB, ELISA

Cited Applications:
WB, IHC

Species Specificity:
human

Cited Species:
human

Positive Controls:

WB : HepG2 cells, A431 cells

Background Information

Sestrins, including sestrin-1 (PA26), sestrin-2 (Hi95), and sestrin-3, are 48 to 65 kDa cystein sulfinyl reductases and they 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 and it might be a promising target in selectively killing cancer cells containing high levels of AKT activity.

Notable Publications

Author	Pubmed ID	Journal	Application
Oscar Alvarez-Garcia	28430387	J Orthop Res	IHC
Cong Jiang	36528027	Mol Cell	WB

Storage

Storage:
Store at -20℃. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
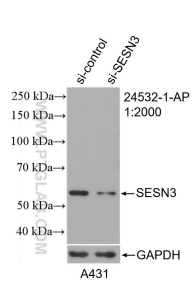Aliquoting is unnecessary for -20°C storage

Selected Validation Data

WB result of SESN3 antibody (24532-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SESN3 transfected A431 cells.
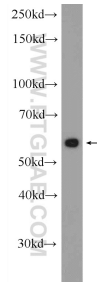
HepG2 cells were subjected to SDS PAGE followed by western blot with 24532-1-AP (SESN3 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.