Sestrin 2 Polyclonal antibody

Catalog Number: 21346-1-AP

Basic Information

Catalog Number: 21346-1-AP
Size: 150μl, Concentration: 300 μg/ml by Nanodrop and 227 μg/ml by Bradford method using BSA as the standard
Source: Rabbit
Isotype: IgG
Immunogen Catalog Number: AG15669

GenBank Accession Number: NM_031459
GeneID (NCBI): 83667
Full Name: sestrin 2
Calculated MW: 480 aa, 54 kDa
Observed MW: 60-66 kDa

Purification Method: Antigen affinity purification
Recommended Dilutions:
WB 1:1000-1:4000
IF 1:10-1:100

Applications

Tested Applications: IF, WB, ELISA
Cited Applications: IF, WB
Species Specificity: human, mouse
Cited Species: human, mouse, rat

Positive Controls:
WB: mouse thymus tissue, HeLa cells, K-562 cells, mouse lung tissue, NIH/3T3 cells
IF: HeLa cells,

Background Information

Sestrins, including sestrin-1 (PA26), sestrin-2 (Hi95), and sestrin-3, are 48 to 65 kDa cystein sulfanyl 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 2 is implicated in the regulation of cell growth and survival, in cellular responses to different stress conditions, and also acts as a positive regulator of autophagy. Sestrin 2 is approximately a 57.6kDa protein (480 amino acids).

Notable Publications

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<th>Author</th>
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<tr>
<td>Maria Manifava</td>
<td>27725083</td>
<td>Elife</td>
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<td>Yi-Sheng Hou</td>
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<td>Mol Cell Biol</td>
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<td>Xudan Shi</td>
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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:
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E: proteintech@ptglab.com
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
mouse thymus tissue were subjected to SDS PAGE followed by western blot with 21346-1-AP (Sestrin 2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.

Immunofluorescent analysis of Hela cells, using SESN2 antibody 21346-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).