

For Research Use Only

# SESN1 Polyclonal antibody

Catalog Number: 21668-1-AP **17 Publications**



## Basic Information

<b>Catalog Number:</b> 21668-1-AP	<b>GenBank Accession Number:</b> BC112036	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 700 µg/ml by Nanodrop and 333 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 27244	<b>Recommended Dilutions:</b> WB 1:500-1:1000
<b>Source:</b> Rabbit	<b>Full Name:</b> sestrin 1	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 551 aa, 64 kDa	
<b>Immunogen Catalog Number:</b> AG16462	<b>Observed MW:</b> 66-68 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB: human skeletal muscle tissue, HEK-293 cells, mouse liver tissue, human testis tissue, HeLa cells, K-562 cells
<b>Cited Applications:</b> IHC, WB	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, rat, mouse	

## Background Information

Sestrins, including sestrin-1 (PA26), sestrin-2 (Hi95), and sestrin-3, are 48 to 65 kDa cysteine 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 1 is implicated in the inhibition of cell growth. It is approximately a 66kDa protein in humans (551 amino acids).

## Notable Publications

Author	Pubmed ID	Journal	Application
T Shen	27693501	Osteoarthritis Cartilage	WB,IHC
Rongya Tao	25377878	Diabetes	
Tianyi Wang	34038646	Appl Physiol Nutr Metab	WB

## Storage

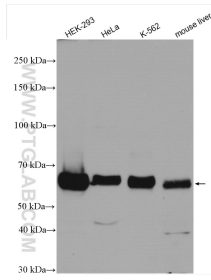
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

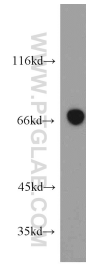
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 21668-1-AP (SESN1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



human skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 21668-1-AP (SESN1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.