

# SESN1 Polyclonal antibody

Catalog Number: 55010-1-AP

1 Publications

## Basic Information

**Catalog Number:**

55010-1-AP

**Size:**

1000 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

NM\_014454

**GeneID (NCBI):**

27244

**UNIPROT ID:**

Q9Y6P5

**Full Name:**

sestrin 1

**Calculated MW:**

64 kDa

**Observed MW:**

50-57 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:1000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

## Applications

**Tested Applications:**

IP, WB, ELISA

**Cited Applications:**

WB, IP

**Species Specificity:**

human, mouse, rat

**Cited Species:**

pig

**Positive Controls:**

WB : mouse brain tissue,

IP : mouse brain tissue,

## Background Information

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

## Notable Publications

Author	Pubmed ID	Journal	Application
Agus Suryawan	34159368	J Nutr	WB, IP

## Storage

**Storage:**

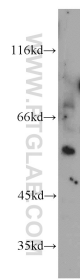
Store at -20°C.

**Storage Buffer:**

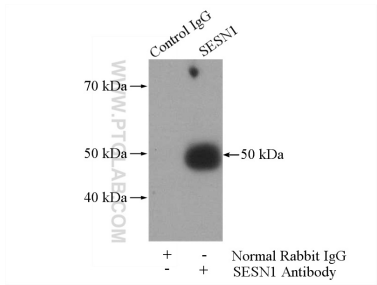
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



mouse brain tissue were subjected to SDS PAGE followed by western blot with 55010-1-AP (SESN1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



IP result of anti-SESN1 (IP:55010-1-AP, 4ug; Detection:55010-1-AP 1:500) with mouse brain tissue lysate 3440ug.