

For Research Use Only

# SH2B1 Polyclonal antibody

Catalog Number: 12226-1-AP

2 Publications



## Basic Information

### Catalog Number:

12226-1-AP

### Size:

150ul, Concentration: 400 ug/ml by Nanodrop and 287 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG2863

### GenBank Accession Number:

BC010704

### GeneID (NCBI):

25970

### UNIPROT ID:

Q9NRF2

### Full Name:

SH2B adaptor protein 1

### Calculated MW:

426 aa, 45 kDa

### Observed MW:

80 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

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

IHC 1:200-1:800

IF/ICC 1:20-1:200

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, CoIP

### Species Specificity:

human

### Cited Species:

human, mouse

### Positive Controls:

WB : HEK-293 cells,

IP : HEK-293 cells,

IHC : human ovary cancer tissue, human skeletal muscle tissue

IF/ICC : HeLa cells,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

SH2B1 is a member of the SH2-domain containing mediators family. SH2B1 has been shown to interact with INS receptor, Grb2, TrkA and Janus kinase 2. Variations close to or in the SH2B1 gene have been found to associate with obesity in two large genome wide association studies of body mass index (PMID: 19079260). SH2B1 deletions are associated with severe early-onset obesity (PMID: 19966786).

## Notable Publications

Author	Pubmed ID	Journal	Application
Xiaojuan Han	35390677	Redox Biol	WB, IHC, IF, CoIP
Xiaohui Jiang	39898036	iScience	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

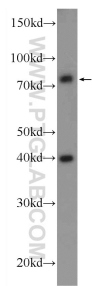
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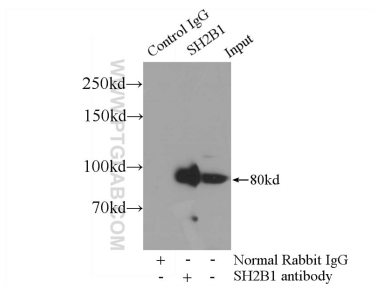
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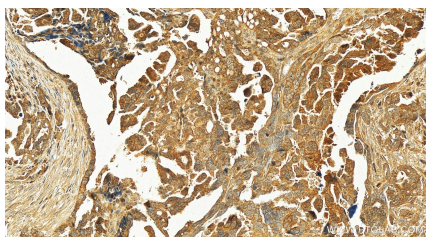
## Selected Validation Data



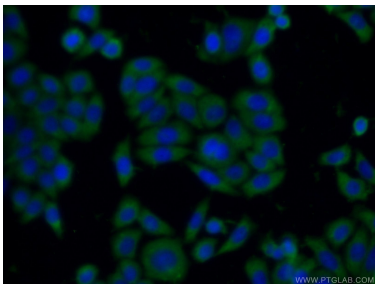
HEK-293 cells were subjected to SDS PAGE followed by western blot with 12226-1-AP (SH2B1 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



IP result of anti-SH2B1 (IP:12226-1-AP, 4ug; Detection:12226-1-AP 1:600) with HEK-293 cells lysate 3000ug.



Immunohistochemical analysis of paraffin-embedded human ovarian cancer slide using 12226-1-AP (SH2B1 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of HeLa cells using 12226-1-AP (SH2B1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).