

P62/SQSTM1 Polyclonal ANTIBODY

Catalog Number: 18420-1-AP

Featured Product

250 Publications

Basic Information

Catalog Number:
18420-1-AP

Size:
44 µg/150 µl

Source:
Rabbit

Isotype:
IgG

Purification Method:
Antigen affinity purification

Immunogen Catalog Number:
AG13131

GenBank Accession Number:
BC017222

GeneID (NCBI):
8878

Full Name:
sequestosome 1

Calculated MW:
48 kDa

Observed MW:
62 kDa

Recommended Dilutions:

WB 1:1000-1:4000

IP 0.5-4.0 µg for IP and 1:500-1:2000 for WB

IHC 1:20-1:200

IF 1:20-1:200

Applications

Tested Applications:

FC, IF, IHC, IP, WB, ELISA

Cited Applications:

IF, IHC, IP, WB

Species Specificity:
human,mouse,rat

Cited Species:

Bovine, chick, chicken, human, mouse, rabbit, rat,
swine, zebrafish

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

Positive Controls:

WB : HEK-293 cells; HeLa cells, Jurkat cells,
mouse liver tissue, mouse spleen tissue

IP : HEK-293 cells;

IHC : human gliomas tissue; human heart tissue,
human liver cancer tissue, mouse brain tissue,
mouse kidney tissue

IF : Starvation treated HepG2 cells; A431 cells,
HeLa cells, MCF-7 cells

Background Information

Sequestosome 1 (SQSTM1/p62) is a multifunctional adaptor protein implicated in selective autophagy, cell signaling pathways, and tumorigenesis. p62 has been implicated in shuttling ubiquitinated and aggregated proteins for autophagic degradation. p62 is degraded during the autophagic process, which makes its intracellular level a marker for autophagy progression. p62 is at the cross-roads of several signaling pathways including Ras/ Raf/ MAPK and NFκB and plays important role in cancer. p62 is a component of inclusion bodies/ protein aggregates found in human diseases, including Huntington's disease, Alzheimer's disease, Parkinson's disease, and nephropathic cystinosis (22074114, 22860231, 22714671). The molecular weight of p62 is predicted to be 48/ 38 kDa (depending on the isoform), while western blot analyses using this antibody detects the bands around 45-48 kDa and 60-62 kDa, respectively.

Notable Publications

Author	Pubmed ID	Journal	Application
Nicola J Rutherford	28964772	Neurosci Lett	IHC
Shouheng Jin	28965816	Mol Cell	WB
Jin-Xiao Liang	25241857	Oncol Rep	

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

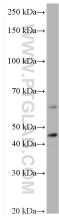
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

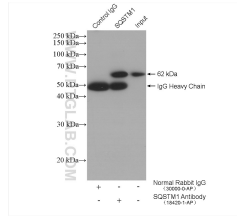
E: proteintech@ptglab.com
W: ptglab.com

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

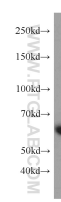
Selected Validation Data



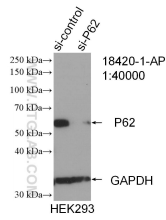
mouse liver tissue were subjected to SDS PAGE followed by western blot with 18420-1-AP (P62/SQSTM1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours



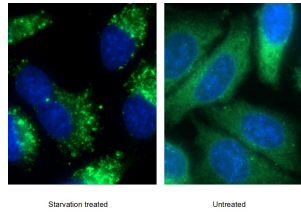
IP result of anti-P62/SQSTM1 (IP: 18420-1-AP 4ug; Detection: 18420-1-AP 1:1000) with HEK-293 cells lysate 4000 ug



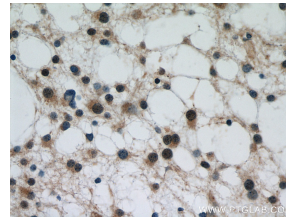
HEK-293 cells were subjected to SDS PAGE followed by western blot with 18420-1-AP (SQSTM1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours



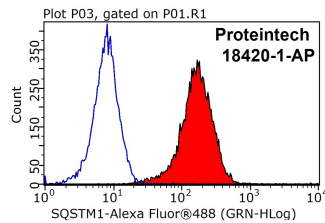
WB result of P62/SQSTM1 antibody (18420-1-AP, 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-P62/SQSTM1 transfected HEK-293 cells



Immunofluorescent analysis of (-20) Ethanol fixed Starvation treated HepG2 cells using 18420-1-AP (P62/SQSTM1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)



Immunohistochemical analysis of paraffin-embedded human gliomas using 18420-1-AP (SQSTM1 antibody) at dilution of 1:50 (under 40x lens)



1X10⁶ HEK-293T cells were stained with 0.2ug P62; SQSTM1 antibody (18420-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.