

For Research Use Only

P62,SQSTM1 Recombinant antibody



Catalog Number: 80294-1-RR

Featured Product

1 Publications

Basic Information

Catalog Number: 80294-1-RR	GenBank Accession Number: BC017222	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 8878	CloneNo.: 1D17
Source: Rabbit	Full Name: sequestosome 1	Recommended Dilutions: WB 1:2000-1:10000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
Isotype: IgG	Calculated MW: 48 kDa	IHC 1:50-1:500
Immunogen Catalog Number: AG13131	Observed MW: 62 kDa	IF 1:250-1:1000

Applications

Tested Applications:
FC, IF, IHC, IP, WB, ELISA

Cited Applications:
WB

Species Specificity:
Human

Cited Species:
human

Positive Controls:

WB : HepG2 cells, HEK-293 cells, MCF-7 cells, HeLa cells

IP : HEK-293 cells,

IHC : human pancreas cancer tissue, human stomach cancer tissue

IF : Chloroquine treated 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

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 (PMID: 22074114, 22860231, 22714671).

Notable Publications

Author	Pubmed ID	Journal	Application
Qiqi Cai	37507096	Toxicol In Vitro	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

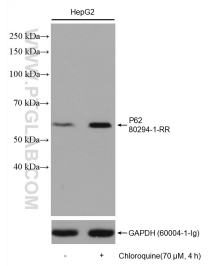
For technical support and original validation data for this product please contact:

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

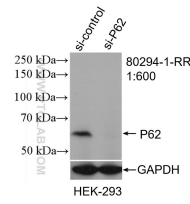
E: proteintech@ptglab.com
W: ptglab.com

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

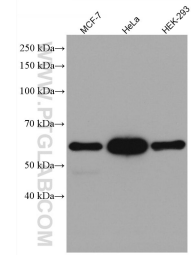
Selected Validation Data



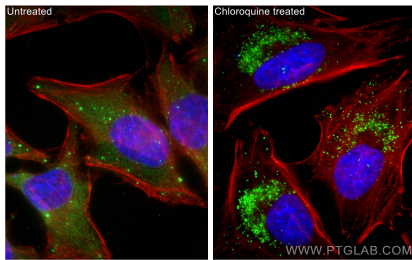
Lysates of HepG2 cells treated with Chloroquine or not were subjected to SDS PAGE followed by western blot with 80294-1-RR (P62,SQSTM1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



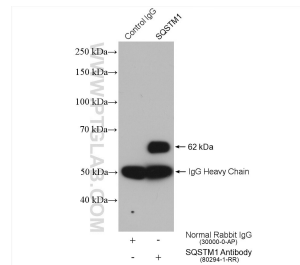
WB result of P62,SQSTM1 antibody (80294-1-RR; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-P62,SQSTM1 transfected HEK-293 cells.



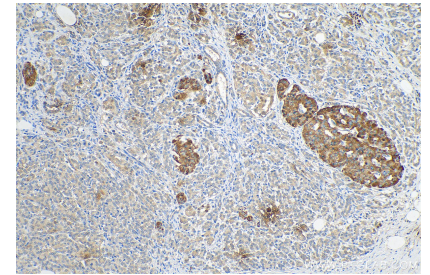
Various lysates were subjected to SDS PAGE followed by western blot with 80294-1-RR (P62,SQSTM1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



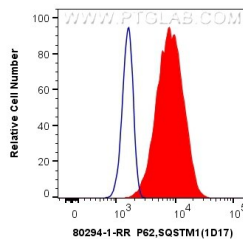
Immunofluorescent analysis of (-20°C Ethanol) fixed Chloroquine treated HeLa cells using P62,SQSTM1 antibody (80294-1-RR, Clone: 1D17) at dilution of 1:500 and Coralite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



IP result of anti-P62,SQSTM1(IP:80294-1-RR, 4ug; Detection:80294-1-RR 1:500) with HEK-293 cells lysate 1640 ug.



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 80294-1-RR (P62,SQSTM1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10⁶ Jurkat cells were intracellularly stained with 0.4 ug Anti-Human P62,SQSTM1 (80294-1-RR, Clone:1D17) and Coralite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).