For Research Use Only

P62,SQSTM1 Recombinant antibody

Catalog Number:80294-1-RR Featured Product 4 Publications

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Basic Information

Catalog Number:
80294-1-RR

Concentration:
1000 ug/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG13131

GenBank Accession Number:
BC017222

GeneID (NCBI):
8878

UNIPROT ID:
Q13501

Full Name:
sequestosome 1

Calculated MW:
48 kDa

Observed MW:
62 kDa

Purification Method:
Protein A purification

CloneNo.:
1D17

Recommended Dilutions:
WB 1:2000-1:10000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF/ICC 1:250-1:1000

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:
WB, CoIP

Species Specificity:
human

Cited Species:
human

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

IP : HEK-293 cells,

IHC : human pancreas cancer tissue, human stomach cancer tissue

IF/ICC : Chloroquine treated HeLa 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 NF κ B 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

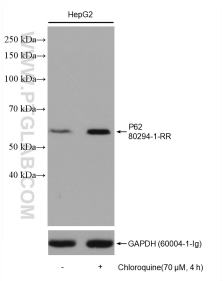
Author	Pubmed ID	Journal	Application
Jiangling Duan	39699800	Cell Oncol (Dordr)	WB,CoIP
Jian Wang	39035994	Front Pharmacol	WB
Jing Ma	38698265	Oncogene	WB

Storage

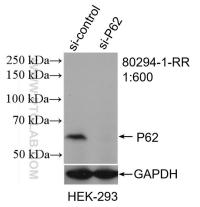
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

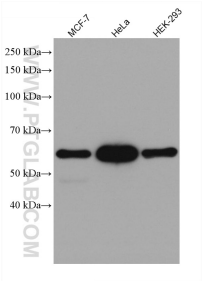
Selected Validation Data



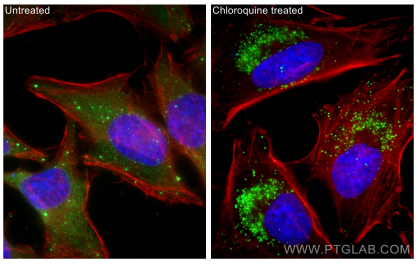
Lysates of HepG2 cells treated with Chloroquine or not were subjected to SDS PAGE followed by western blot with 80294-1-RR (P62,SQSTM1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



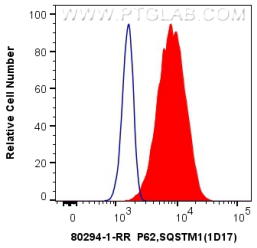
WB result of P62,SQSTM1 antibody (80294-1-RR; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-P62,SQSTM1 transfected HEK-293 cells.



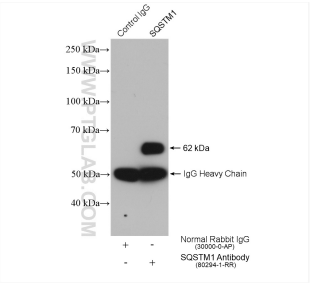
Various lysates were subjected to SDS PAGE followed by western blot with 80294-1-RR (P62,SQSTM1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



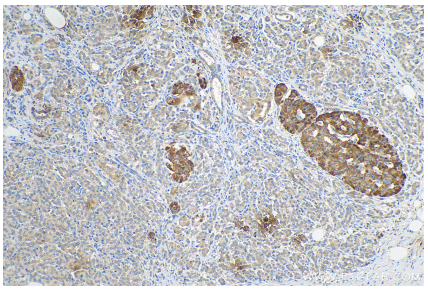
Immunofluorescent analysis of (-20°C Ethanol) fixed Chloroquine treated HeLa cells using P62,SQSTM1 antibody (80294-1-RR, Clone: 1D17) at dilution of 1:500 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



1X10^6 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).



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).