For Research Use Only

P62/SQSTM1 Recombinant antibody

Catalog Number:84826-1-RR

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Basic Information

Catalog Number:
84826-1-RR

Concentration:
1000 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG35064

GenBank Accession Number:
NM_011018

GeneID (NCBI):
18412

UNIPROT ID:
Q64337

Full Name:
sequestosome 1

Calculated MW:
48 kDa

Observed MW:
62 kDa

Purification Method:
Protein A purification

CloneNo.:
241992C4

Recommended Dilutions:
WB 1:5000-1:50000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:200-1:800
IF/ICC 1:250-1:1000

Applications

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

Species Specificity:
human, mouse, rat

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 : NIH/3T3 cells, HeLa cells, mouse brain tissue, HepG2 cells, Jurkat cells, Raji cells, HEK-293T cells, MCF-7 cells, mouse liver tissue, rat brain tissue

IP : NIH/3T3 cells,

IHC : mouse brain tissue,

IF/ICC : NIH/3T3 cells,

Background Information

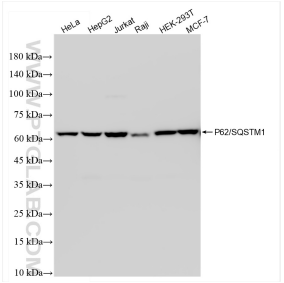
Sequestosome 1 (SQSTM1/p62) is a multifunctional adaptor protein implicated in selective autophagy, cell signaling pathways, and tumorigenesis. p62 has been implicated in shuttling ubiquitinated and aggregated proteins for autophagic degradation. p62 is degraded during the autophagic process, which makes 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.

Storage

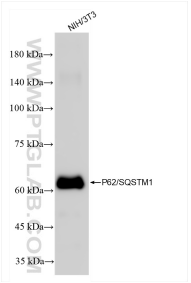
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

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

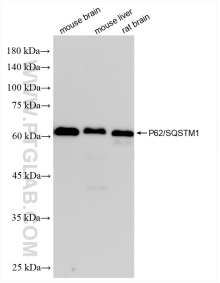
Selected Validation Data



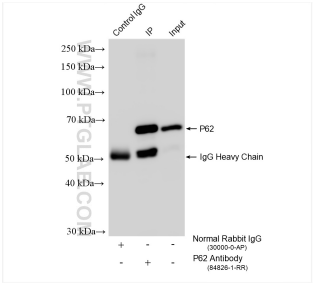
Various lysates were subjected to SDS PAGE followed by western blot with 84826-1-RR (P62/SQSTM1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



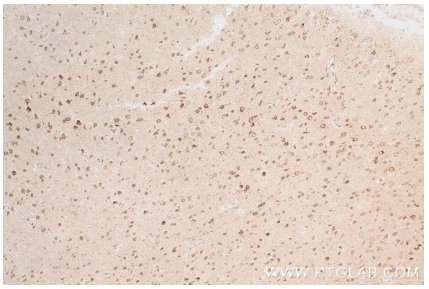
NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 84826-1-RR (P62/SQSTM1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



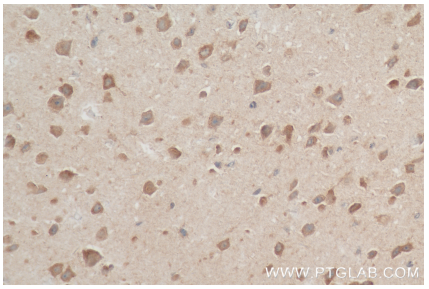
Various lysates were subjected to SDS PAGE followed by western blot with 84826-1-RR (P62/SQSTM1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



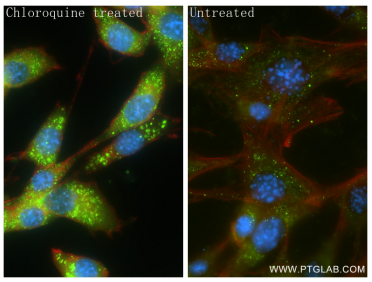
IP result of anti-P62/SQSTM1 (IP:84826-1-RR, 4ug; Detection:84826-1-RR 1:4000) with NIH/3T3 cells lysate 1920 ug.



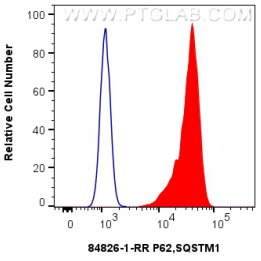
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 84826-1-RR (P62/SQSTM1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



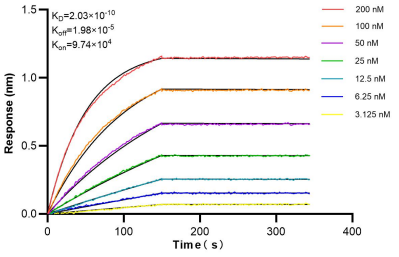
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 84826-1-RR (P62/SQSTM1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed NIH/3T3 cells using P62/SQSTM1 antibody (84826-1-RR, Clone: 241992C4) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



1x10^6 NIH/3T3 cells were intracellularly stained with 0.25 ug P62/SQSTM1 Recombinant antibody (84826-1-RR, Clone:241992C4) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 84826-1-RR against Mouse P62,SQSTM1 were performed. The affinity constant is 0.203 nM.