For Research Use Only

P62/SQSTM1 Polyclonal antibody

Catalog Number:55274-1-AP Featured Product 28 Publications

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Basic Information

Catalog Number:
55274-1-AP

Size:
150ul , Concentration: 433 μg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_003900

GeneID (NCBI):
8878

UNIPROT ID:
Q13501

Full Name:
sequestosome 1

Calculated MW:
48 kDa

Observed MW:
60 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000
IHC 1:20-1:200
IF/ICC 1:20-1:200

Applications

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

Cited Applications:
WB, IHC, IF, IP

Species Specificity:
human, mouse, rat

Cited Species:
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 : HEK-293 cells, MCF-7 cells, HepG2 cells

IHC : human breast cancer tissue, mouse brain tissue, mouse kidney tissue, human heart tissue

IF/ICC : HepG2 cells, U2OS cells

Background Information

SQSTM1, also named as ORCA, OSIL, p60, EBIAP, A170, PDB3, ZIP3, p62 and p62B, is an adapter protein which binds ubiquitin and may regulate the activation of NFKB1 by TNF-alpha, nerve growth factor (NGF) and interleukin-1. It may play a role in titin/TTN downstream signaling in muscle cells. SQSTM1 may regulate signaling cascades through ubiquitination. It is an adapter that mediates the interaction between TRAF6 and CYLD. SQSTM1 may be involved in cell differentiation, apoptosis, immune response and regulation of K+ channels (PMID: 10356400). This antibody is specific to SQSTM1.

Notable Publications

Author	Pubmed ID	Journal	Application
Xue Gao	33071778	Front Pharmacol	WB,IF
Lien Veys	34557068	Front Neurosci	IF
Yuan Cao	31731808	Nutrients	WB

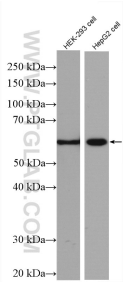
Storage

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

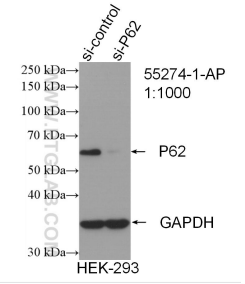
*** 20ul sizes contain 0.1% BSA

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

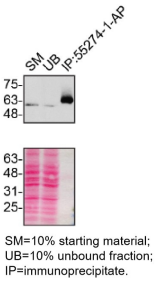
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 55274-1-AP (P62/SQSTM1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.

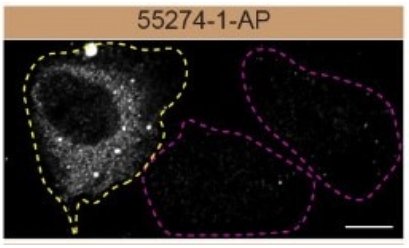


WB result of P62/SQSTM1 antibody (55274-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-P62/SQSTM1 transfected HEK-293 cells.

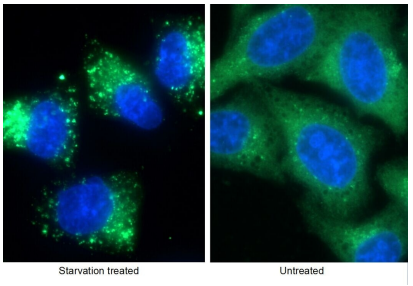


SM=10% starting material;
UB=10% unbound fraction;
IP=immunoprecipitate.

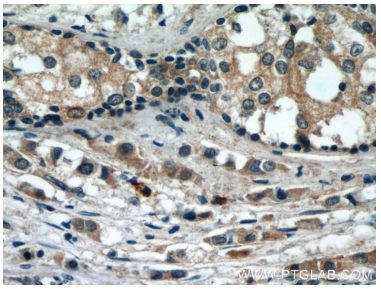
U2OS lysates prepared and IP of SQSTM1 performed using 1.0 µg of 55274-1-AP coupled to protein A- Sepharose beads. The Ponceau stained transfers of each blot are shown. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



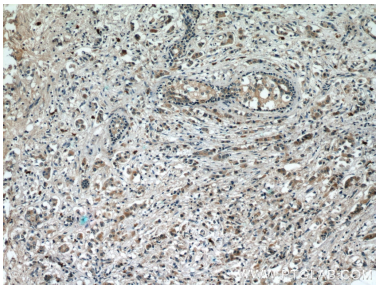
U2OS WT cells (yellow outline) and SQSTM1 KO cells (red outline) labelled with a green or a far-red fluorescence dye, respectively. Cells fixed with 4% PFA and stained with 55274-1-AP at 1:300. Bars = 10 µm. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 55274-1-AP (P62/SQSTM1 antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human breast cancer using 55274-1-AP (SQSTM1 antibody) at dilution of 1:50 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded human breast cancer using 55274-1-AP (SQSTM1 antibody) at dilution of 1:50 (under 10x lens).