

For Research Use Only

P62,SQSTM1 Monoclonal antibody

Catalog Number: 66184-1-Ig

Featured Product

106 Publications



Basic Information

Catalog Number:	GenBank Accession Number:	Purification Method:
66184-1-Ig	BC017222	Protein A purification
Size:	GeneID (NCBI):	CloneNo.:
150ul , Concentration: 2000 µg/ml by Nanodrop;	8878	1H5C1
Source:	Full Name:	Recommended Dilutions:
Mouse	sequestosome 1	WB 1:5000-1:50000
Isotype:	Calculated MW:	IHC 1:2000-1:8000
IgG2b	48 kDa	IF 1:200-1:800
Immunogen Catalog Number:	Observed MW:	
AG13131	62 kDa	

Applications

Tested Applications:	Positive Controls:
FC, IF, IHC, IP, WB, ELISA	WB : HeLa cells, U2OS cells, K-562 cells, HEK-293 cells, MCF-7 cells, HepG2 cells, Jurkat cells, L02 cells, Raji cells
Cited Applications:	IHC : human lung cancer tissue, human colon cancer tissue, human liver cancer tissue, human endometrial cancer tissue
CoIP, IF, IHC, IP, WB	IF : U2OS cells, Chloroquine treated U2OS cells, Starvation treated HepG2 cells
Species Specificity:	
human	
Cited Species:	
human, monkey, pig, bovine	
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 sometimes aggregated proteins for autophagic degradation. As a autophagy-specific substrate, p62 is degraded during the autophagic process, which makes intracellular level of p62 as a marker for autophagy flux. 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 in the brain, and nephropathic cystinosis in kidney (PMID: 22074114, 22860231, 22714671). The molecular weight of p62 is predicted as 48/ 38 kDa, while western blot analyses using this antibody demonstrate the major band around 60-62 kDa in various tissues.

Notable Publications

Author	Pubmed ID	Journal	Application
Yushan Mao	36175702	Med Oncol	WB
Wenbin Pei	34650433	Front Pharmacol	WB
Lei Zhao	34582963	Food Chem Toxicol	WB

Storage

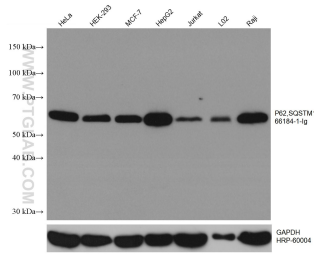
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

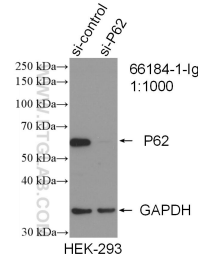
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

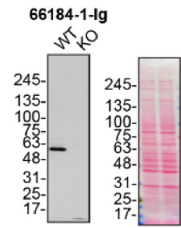
Selected Validation Data



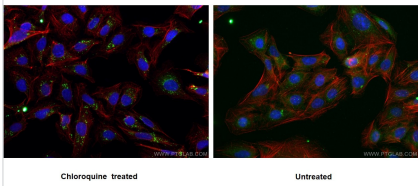
Various lysates were subjected to SDS PAGE followed by western blot with 66184-1-Ig (P62,SQSTM1 antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



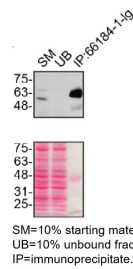
WB result of P62,SQSTM1 antibody (66184-1-Ig; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-P62/SQSTM1 transfected HEK-293 cells.



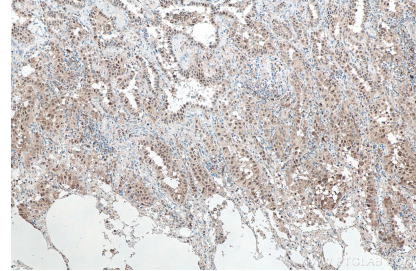
U2OS (WT and SQSTM1 KO) lysates prepared with RIPA buffer, 25 µg protein loaded. 66184-1-Ig incubated at 1:1000 at 4°C overnight in 5% milk in TBST. Ponceau stained transfers shown on right. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



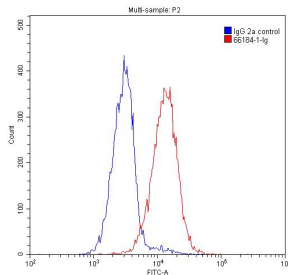
Immunofluorescent analysis of (-20°C Ethanol) fixed U2OS cells using P62/SQSTM1 antibody (66184-1-Ig, Clone: 1H5C1) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).



U2OS lysates prepared and IP of SQSTM1 performed using 1.0 µg of 66184-1-Ig coupled to protein G- 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.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66184-1-Ig (P62,SQSTM1 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10⁶ Jurkat cells were stained with 0.20 µg P62,SQSTM1 antibody (66184-1-Ig, red) and control antibody (blue). Fixed with 90% MeOH.