Nur für Forschungszwecke

P62,SQSTM1 Polyklonaler Antikörper

Katalog-Nr.:18420-1-AP Vorgestelltes Produkt 1137 Publikationen

proteintech®
Antibodies | ELISA kits | Proteins
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Allgemeine Informationen

Katalog-Nr.:
18420-1-AP

Größe:
150ul , Konzentration: 700 μg/ml von Nanodrop;

Wirt:
Kaninchen

Isotyp:
IgG

Immunogen Katalognummer:
AG13131

GenBank-Zugangsnummer:
BC017222

GeneID (NCBI):
8878

Vollständiger Name:
sequestosome 1

Berechneté Masse:
48 kDa

Beobachteté Masse:
62 kDa

Reinigungsmethode:
Antigen-Affinitätsreinigung

Empfohlene Verdünnungen:
WB 1:5000-1:50000
IP 0.5-4.0 ug für IP und 1:500-1:2000 für WB
IHC 1:400-1:1600
IF 1:750-1:3000

Anwendungen

Geprüfte Anwendungen:
FC, IF, IHC, IP, WB, ELISA

In Publikationen genannte Anwendungen:
CoIP, IF, IHC, IP, WB

Getestete Reaktivität:
Human

Zitierte Arten:
Affe, Gänseküken, Hamster, Hausschwein, Huhn, Human, Rind, Ziege, Ostasiatischer Kiemenschlitzaal (Monopterus Albus)

Hinweis-IHC: Antigendemaskierung mit TE-Puffer pH 9,0 empfohlen. (*) Wahlweise kann die Antigendemaskierung auch mit Citratpuffer pH 6,0 erfolgen.

Positivkontrollen:

WB : HeLa-Zellen, HEK-293-Zellen, HepG2-Zellen, Jurkat-Zellen, U2OS-Zellen, U-87 MG-Zellen

IP : HEK-293-Zellen, U2OS-Zellen

IHC : Maushirngewebe, humanes Gliomgewebe, humanes Leberkarzinomgewebe

IF : mit Chloroquin behandelte HepG2-Zellen, Ausgehungerte HepG2-Zellen, mit Chloroquin behandelte HeLa-Zellen, U2OS-Zellen

Hintergrundinformationen

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). The molecular weight of p62 is predicted to be 48/ 38 kDa (depending on the isoform), while western blot analyses using this antibody detects the bands around 45-48 kDa and 60-62 kDa, respectively.

Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Huanshan He	36183753	Int J Biol Macromol	IF,WB
Xin Xu	36178722	Environ Toxicol	WB,IF
Zeen Zhu	36248959	Front Oncol	WB,IHC

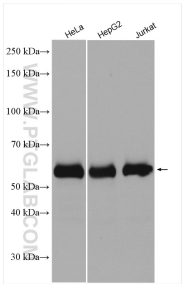
Lagerung

Lagerungsbedingungen:
Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil
Lagerungspuffer:
PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.
Aliquotieren ist nicht notwendig bei -20°C lagerung

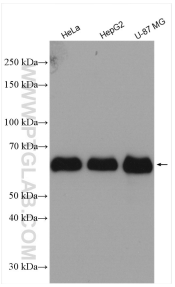
*** 20ul-Größen enthalten 0.1% BSA

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

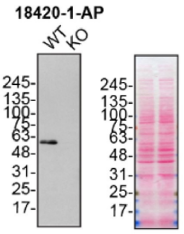
Ausgewählte Validierungsdaten



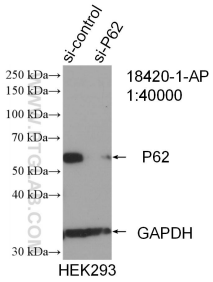
Various lysates were subjected to SDS PAGE followed by western blot with 18420-1-AP (P62,SQSTM1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



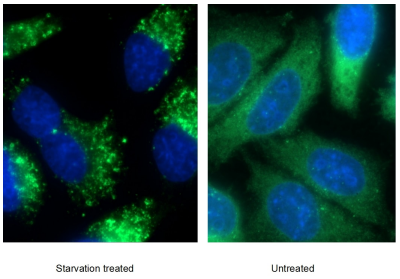
Various lysates were subjected to SDS PAGE followed by western blot with 18420-1-AP (P62,SQSTM1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



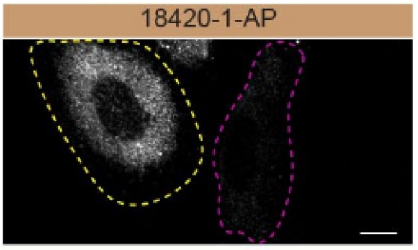
U2OS (WT and SQSTM1 KO) lysates prepared with RIPA buffer, 25 µg protein loaded. 18420-1-AP incubated at 1:1000 at 4°C overnight in 5% milk in TBST. Ponceau stained transfers shown on right. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



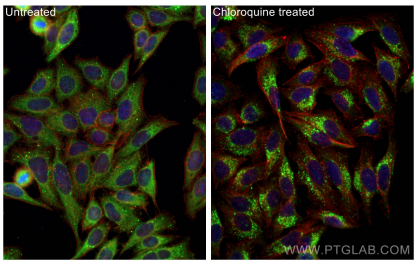
WB result of P62,SQSTM1 antibody (18420-1-AP; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-P62/SQSTM1 transfected HEK-293 cells.



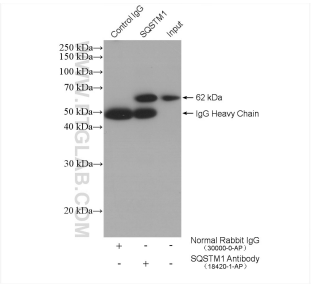
Immunofluorescent analysis of (-20°C Ethanol) fixed Starvation treated HepG2 cells using 18420-1-AP (P62,SQSTM1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



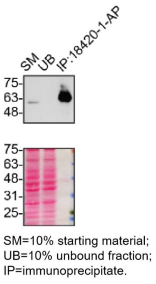
U2OS WT cells (yellow outline) and SQSTM1 KO cells (red outline) labelled with a green or a far-red fluorescence dye, respectively. Cells fixed with 4% PFA and stained with 18420-1-AP at 1:300. Bars = 10 µm. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



Immunofluorescent analysis of (-20°C Ethanol) fixed Chloroquine treated HepG2 cells using P62,SQSTM1 antibody (18420-1-AP) at dilution of 1:1500 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).

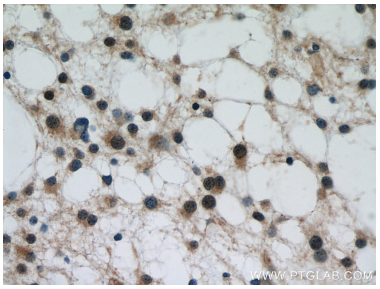


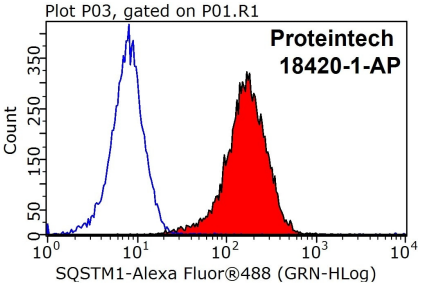
IP result of anti-P62,SQSTM1 (IP:18420-1-AP, 4ug; Detection:18420-1-AP 1:1000) with HEK-293 cells lysate 4000 ug.

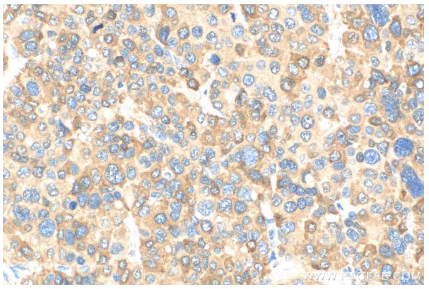


SM=10% starting material;
UB=10% unbound fraction;
IP=immunoprecipitate.

U2OS lysates prepared and IP of SQSTM1 performed using 1.0 µg of 18420-1-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.



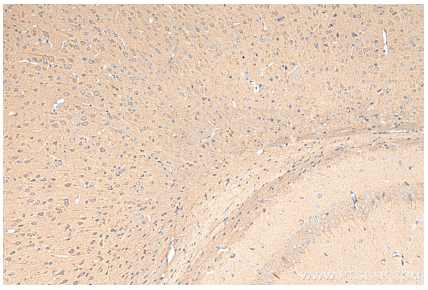




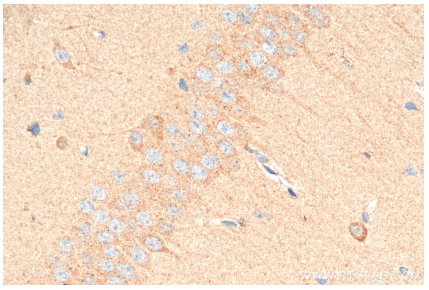
Immunohistochemical analysis of paraffin-embedded human gliomas using 18420-1-AP (SQSTM1 antibody) at dilution of 1:50 (under 40x lens).

1X10^6 HEK-293T cells were stained with 0.2ug P62,SQSTM1 antibody (18420-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.

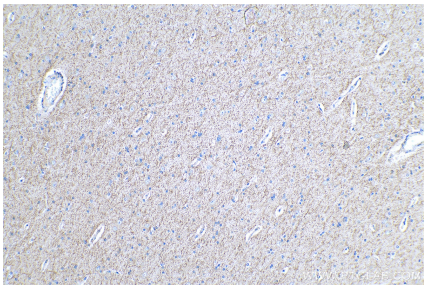
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 18420-1-AP (P62,SQSTM1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



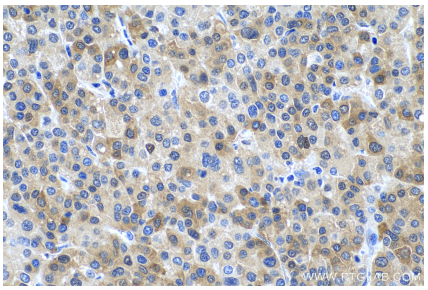
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 18420-1-AP (P62,SQSTM1 antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



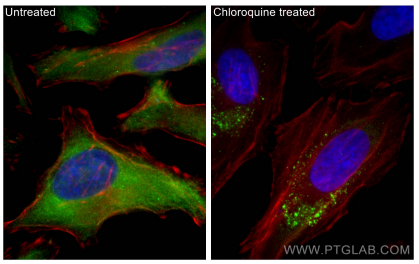
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 18420-1-AP (P62,SQSTM1 antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 18420-1-AP (P62,SQSTM1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 18420-1-AP (P62,SQSTM1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed Chloroquine treated HeLa cells using P62,SQSTM1 antibody (18420-1-AP) at dilution of 1:500 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), (CL594-Phalloidin, red).