

## Rabbit Anti-SQSTM1/p62 antibody

SL55207R

**Product Name** [KO validated anti] SQSTM1/p62

**Chinese Name** UbiquitinBinding proteinP62 抗体

**Alias** SQSTM\_HUMAN; Sequestosome-1; ORCA; OSIL; EBI3-associated protein of 60 kDa (EBIAP)  
ligand for the Lck SH2 domain of 62 kDa; Ubiquitin-binding protein p62;

**Research Area** Cardiovascular Chromatin and nuclear signals Signal transduction Apoptosis transcriptional regu

**Immunogen Species** Rabbit

**Clonality** Polyclonal

**React Species** Human,Mouse,Rat

**Applications** WB=1:1000-5000,IHC-P=1:200-500,IHC-F=1:200-500,IF=1:200-500,ICC/IF=1:100-500,Flow-  
(Paraffin sections need antigen repair)  
not yet tested in other applications.  
optimal dilutions/concentrations should be determined by the end user.

**Theoretical molecular weight** 38/47kDa

**Cellular localization** The nucleus cytoplasmic

**Form** Liquid

**Concentration** 1mg/ml

**immunogen** Recombinant human SQSTM1/p62: 1-440

**Lsotype** IgG

**Purification** affinity purified by Protein A

**Buffer Solution** 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

**Storage** Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable for 12 months and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M P is stable for at least two weeks at 2-4 °C.

**Attention** This product as supplied is intended for research use only, not for use in human, therapeutic or d

**PubMed** [PubMed](#)

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This gene encodes a multifunctional protein that binds ubiquitin and regulates activation of the nuclear factor- $\kappa$ B. The protein functions as a scaffolding/adaptor protein in concert with TNF receptor-associated factor 6 to transduce signals to upstream signals. Alternatively spliced transcript variants encoding either the same or different isoforms exist. Mutations in this gene result in sporadic and familial Paget disease of bone. [provided by RefSeq, Mar 2016]

**Function:**

Adapter protein which binds ubiquitin and may regulate the activation of NF $\kappa$ B1 by TNF- $\alpha$  and interleukin-1. May play a role in titin/TTN downstream signaling in muscle cells. May regulate skeletal muscle differentiation, apoptosis, immune response and regulation of K(+) channels.

**Subunit:**

Cytoplasm. Late endosome. Nucleus. Endoplasmic reticulum. Note=Sarcomere. In cardiac muscle localizes to late endosomes. May also localize to the nucleus. Accumulates in neurofibrillary tangles from individuals with Alzheimer and Parkinson disease respectively. Enriched in Rosenthal fibers in astrocytes, accumulates in Mallory bodies associated with alcoholic hepatitis, Wilson disease, indian ink bodies associated with hepatocellular carcinoma. Colocalizes with TRIM13 in the perinuclear region.

**Subcellular Location:**

Cytoplasm. Late endosome. Nucleus. Sarcomere (By similarity). In cardiac muscles localizes to late endosomes. May also localize to the nucleus. Accumulates in neurofibrillary tangles from individuals with Alzheimer and Parkinson disease respectively. Enriched in Rosenthal fibers in astrocytes, accumulates in Mallory bodies associated with alcoholic hepatitis, Wilson disease, indian ink bodies associated with hepatocellular carcinoma.

**Product  
Detail**

**Tissue Specificity:**

Ubiquitously expressed.

**Post-translational modifications:**

Phosphorylated. May be phosphorylated by PRKCZ (By similarity). Phosphorylated in vitro by TRAF6.

**DISEASE:**

Defects in SQSTM1 are a cause of Paget disease of bone (PDB) [MIM:602080]. PDB is a metabolic bone disease of the skeleton and characterized by focal areas of increased and disorganized bone turn-over due to accelerated bone resorption. The disease include bone pain, deformity, pathological fractures, deafness, neurological complications and osteosarcoma. PDB is a chronic disease affecting 2 to 3% of the population above the age of 40.

**Similarity:**

- Contains 1 OPR domain.
- Contains 1 UBA domain.
- Contains 1 ZZ-type zinc finger.

**SWISS:**

Q13501

**Gene ID:**  
8878

**Database links:**

[Entrez Gene: 8878](#) Human

[Entrez Gene: 18412](#) Mouse

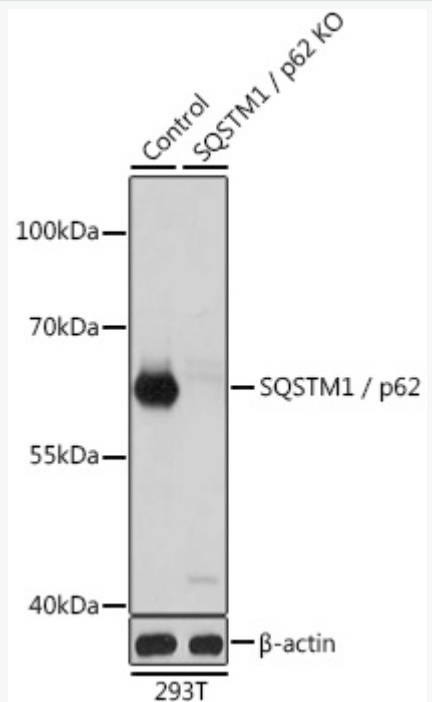
[Entrez Gene: 113894](#) Rat

[SwissProt: Q13501](#) Human

[SwissProt: Q64337](#) Mouse

[SwissProt: O08623](#) Rat

**Product  
Picture**



**Sample:**

Lane 1: 293T (Human) Cell Lysate at 25 ug

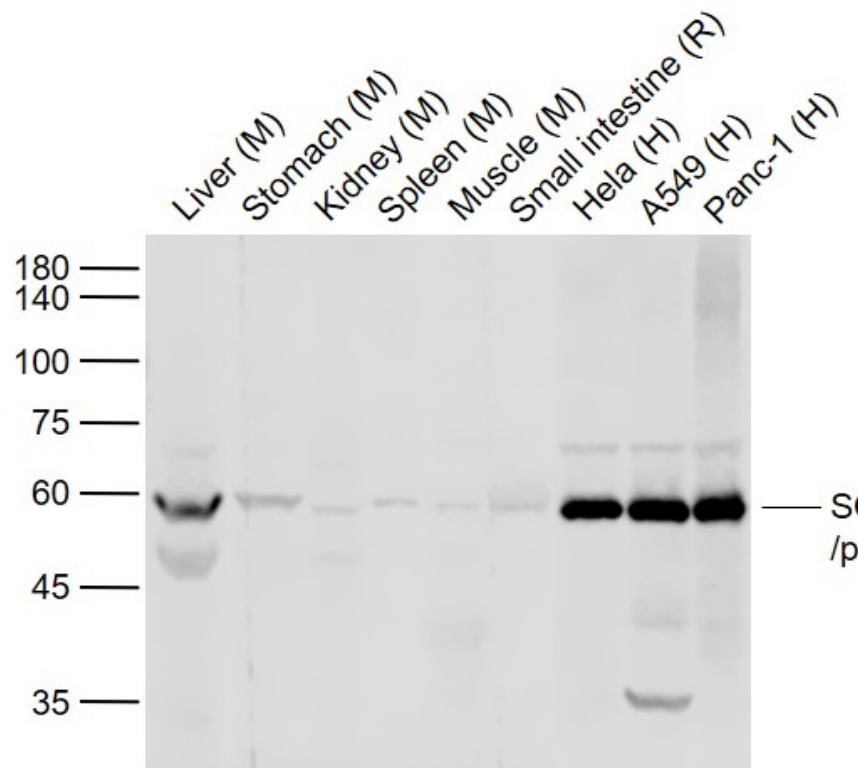
Lane 2: SQSTM1 / p62 knockout (KO) 293T (Human) Cell Lysate at 25 ug

Primary: Anti-SQSTM1 / p62 (SL55207R) at 1/1000 dilution

Secondary: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution

Predicted band size: 62 kD

Observed band size: 62 kD



Sample:

Lane 1: Liver (Mouse) Lysate at 40 ug

Lane 2: Stomach (Mouse) Lysate at 40 ug

Lane 3: Kidney (Mouse) Lysate at 40 ug

Lane 4: Spleen (Mouse) Lysate at 40 ug

Lane 5: Muscle (Mouse) Lysate at 40 ug

Lane 6: Small intestine (Rat) Lysate at 40 ug

Lane 7: Hela (Human) Cell Lysate at 30 ug

Lane 8: A549 (Human) Cell Lysate at 30 ug

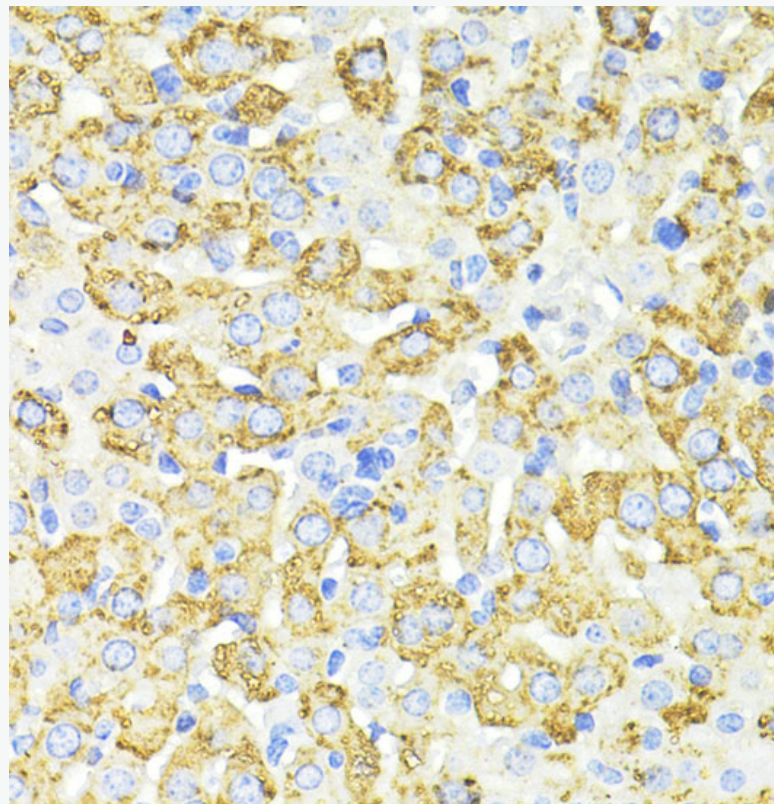
Lane 9: Panc-1 (Human) Cell Lysate at 30 ug

Primary: Anti-SQSTM1/p62 (SL55207R) at 1/1000 dilution

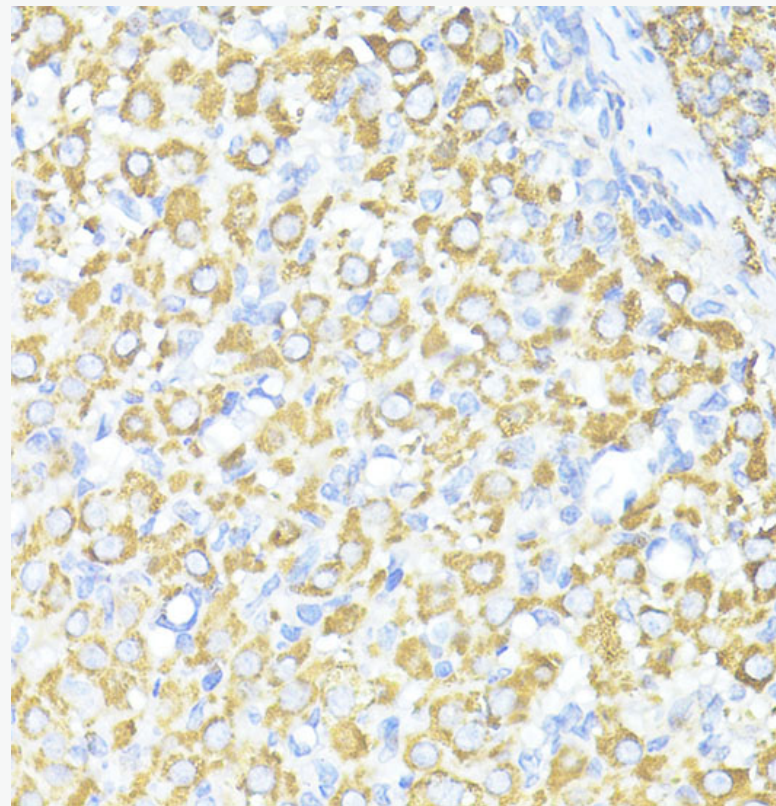
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 62 kD

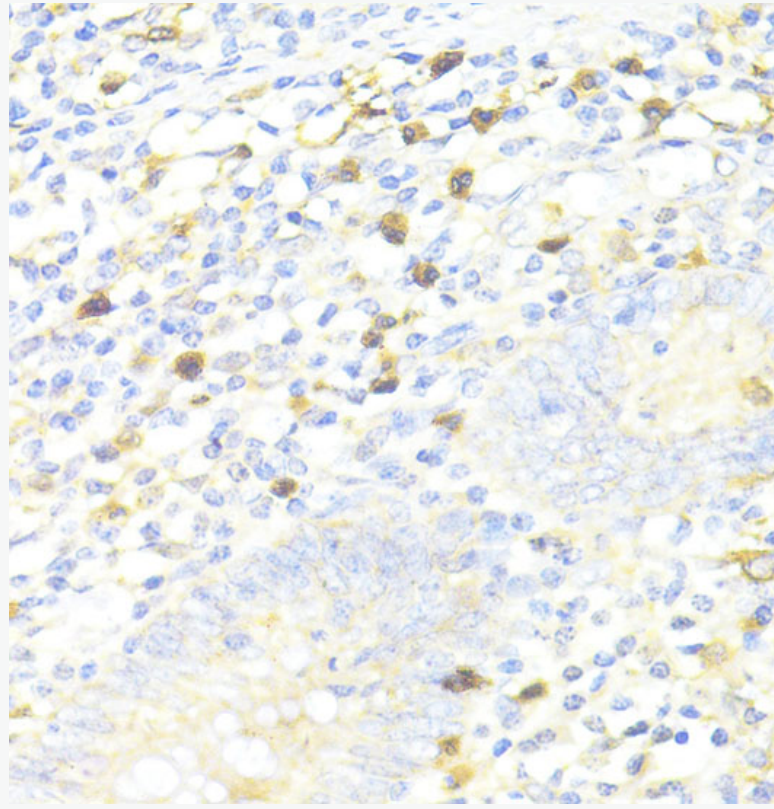
Observed band size: 60 kD



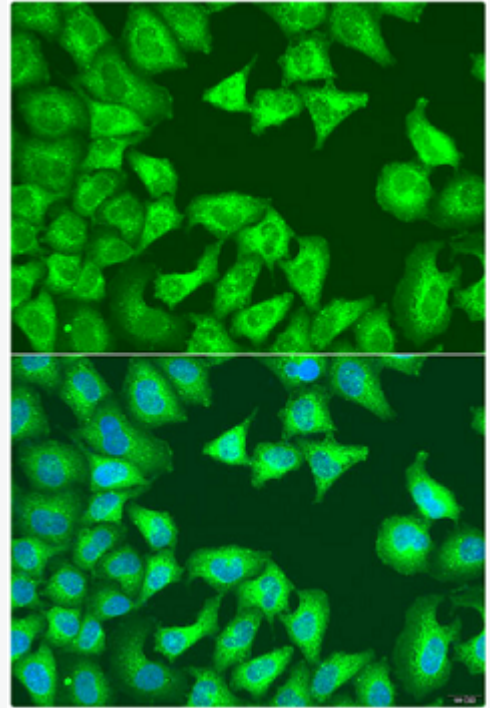
Paraformaldehyde-fixed, paraffin embedded (Mouse liver); Antigen retrieval by boiling in sodium citrate buffer (pH 6.0);  
Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) for 1 hour;  
Antibody incubation with (SQSTM1) Polyclonal Antibody, Unconjugated (SL55207R) at 1:1000 for 24 hours;  
operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat ovary); Antigen retrieval by boiling in sodium citrate buffer (pH 6.0);  
Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) for 1 hour;  
Antibody incubation with (SQSTM1) Polyclonal Antibody, Unconjugated (SL55207R) at 1:1000 for 24 hours;  
operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human appendix); Antigen retrieval by boiling in citrate buffer for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer for 30min; Antibody incubation with (SQSTM1) Polyclonal Antibody, Unconjugated (SL55207R) for 24h at 4°C; DAB staining by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



U2-OS cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Block C-0005) at 37°C for 20 min; Antibody incubation with (KO Validated)SQSTM1/p62 polyclonal (SL55207R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody (blue, C02-04002) was used to stain the cell nuclei.