

Rabbit SQSTM1 (p62) Polyclonal Antibody | anti-SQSTM1 antibody

SQSTM1 (p62) Antibody (C-term)

CATALOG # AAA28682	HOST Rabbit	REACTIVITY Human,Mouse,RatPredicted: Rat	APPLICATIONS Western Blot, Immunohistochemistry, Immunofluorescence, ELISA
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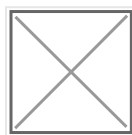
PRODUCT SYNONYMS

SQSTM1 (p62); Polyclonal Antibody; SQSTM1 (p62) Antibody (C-term); Sequestosome-1; EBI3-associated protein of 60 kDa; EBIAP; p60; Phosphotyrosine-independent ligand for the Lck SH2 domain of 62 kDa; Ubiquitin-binding protein p62; SQSTM1; ORCA; OSIL; anti-SQSTM1 antibody

PRODUCT SPECIFICATIONS

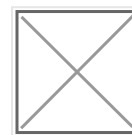
Host	Rabbit
Reactivity	Human,Mouse,Rat Predicted: Rat
Clonality	Polyclonal
Isotype	Rabbit IgG.
Specificity	This SQSTM1 (p62) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 317-346 amino acids from the C-terminal region of human SQSTM1 (p62).
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Length	356
Applicable Applications for anti-SQSTM1 antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), ELISA
Application Notes	WB~~1:1000-1:2000 IHC-P~~1:50~100 IF~~1:50~100
Antigen Region	317-346
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



Application Data

Immunofluorescence staining of Autophagy SQSTM1 (p62) Antibody (C-term) (AAA28682) on Methanol-fixed and PFA fixed HeLa cells. Data courtesy of Dr. Eeva-Liisa Eskelinen, University of Helsinki, Finland.



Application Data

Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



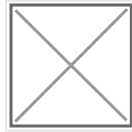
Application Data

Fluorescent image of U251 cells stained with SQSTM1 (p62) (C-term) antibody. U251 cells were treated with Chloroquine (50 μ M, 16h), then fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min). Cells were then incubated with AAA28682 SQSTM1 (p62) (C-term) primary antibody (1:200, 2 h at room temperature). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:1000, 1h). Nuclei were counterstained with Hoechst 33342 (blue) (10 μ g/ml, 5 min). SQSTM1 (p62) immunoreactivity is localized to autophagic vacuoles in the cytoplasm of U251 cells.



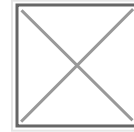
Application Data

AAA28682 staining SQSTM1 in Human prostate tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



Application Data

All lanes : Anti-SQSTM1 (p62) Antibody (C-term) at 1:1000-1:2000 dilution Lane 1: A549 whole cell lysate Lane 2: Hela whole cell lysate Lane 3: Jurkat whole cell lysate Lane 4: THP-1 whole cell lysate Lane 5: A20 whole cell lysate Lysates/proteins at 20 μ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 48 kDa Blocking/Dilution buffer: 5% NFDm/TBST.



Application Data

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ADDITIONAL INFORMATION

Related Product Information for anti-SQSTM1 antibody	SQSTM1/p62 is an adapter protein which binds ubiquitin and may regulate the activation of NFkB1 by TNF-alpha, nerve growth factor (NGF) and interleukin-1. This protein may play a role in titin/TTN downstream signaling in muscle cells, and may also regulate signaling cascades through ubiquitination. This protein is involved in cell differentiation, apoptosis, immune response and regulation of K(+) channels. SQSTM1/p62 also appears to play a role in macroautophagic removal of intracellular protein aggregates. Cellular depletion studies of SQSTM1/p62 have indicated a role for association with LC3 and aggregate proteins in order to facilitate normal formation of the autophagosome.
Product Categories/Family for anti-SQSTM1 antibody	Cardiovascular ; Metabolism ; Signal Transduction ; Phospho Antibodies
References	References for protein: - Seibenhener, M.L., et al., Mol. Cell. Biol. 24(18):8055-8068 (2004). - Eekhoff, E.W., et al., Arthritis Rheum. 50(5):1650-1654 (2004). - Brajenovic, M., et al., J. Biol. Chem. 279(13):12804-12811 (2004). - Kuusisto, E., et al., J. Neuropathol. Exp. Neurol. 62(12):1241-1253 (2003). - Johnson-Pais, T.L., et al., J. Bone Miner. Res. 18(10):1748-1753 (2003). References for U251 cell line: - Westermarck B.; Pontén J.; Hugosson R. (1973). "Determinants for the establishment of permanent tissue culture lines from human gliomas". Acta Pathol Microbiol Scand A. 81:791-805. [PMID: 4359449]. - Pontén, J., Westermarck B. (1978). "Properties of Human Malignant Glioma Cells in Vitro". Medical Biology 56: 184-193.[PMID: 359950]. - Geng Y.; Kohli L.; Klocke B.J.; Roth K.A.(2010). "Chloroquine-induced autophagic vacuole accumulation and cell death in glioma cells is p53 independent". Neuro Oncol. 12(5): 473-481.[PMID: 20406898].

NCBI AND UNIPROT INFORMATION

NCBI GI #	214830438
NCBI GeneID	8878
NCBI Accession #	NP_001135770.1 ; NP_001135771.1 ; NP_003891.1
NCBI GenBank Nucleotide #	NM_001142298.1
UniProt Accession #	Q13501 ; Q13446 ; Q9BUV7 ; Q9BVS6 ; Q9UEU1 ; A6NFN7 ; B2R661 ; B3KUW5
NCBI Official Full Name	sequestosome-1 isoform 2

NCBI Official Synonym Full Names	sequestosome 1
NCBI Official Symbol	SQSTM1
NCBI Official Synonym Symbols	p60; p62; A170; OSIL; PDB3; ZIP3; p62B; FTDALS3
NCBI Protein Information	sequestosome-1
UniProt Protein Name	Sequestosome-1
UniProt Gene Name	SQSTM1
UniProt Synonym Gene Names	ORCA; OSIL; EBIAP; p60
UniProt Entry Name	SQSTM_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/sqstm1-p62-antibody-western-blot-immunohistochemistry-immunofluorescence-elisa/28682>