SQSTM1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SQSTM1, Polyclonal Antibody
Full Product Name	SQSTM1 Antibody, FITC conjugated
Product Gene Name	anti-SQSTM1 antibody
Product Synonym Names	Sequestosome-1; EBI3-associated protein of 60 kDa; EBIAP; p60; Phosphotyrosine-independent ligand for the Lck SH2 domain of 62 kDa; Ubi; SQSTM1; ORCA; OSIL
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: SQSTM1 (MBS7045657) FITC Conjugated Antibody: SQSTM1 (MBS7044114)
Molecular Weight	38,629 Da
OMIM	167250
3D Structure	ModBase 3D Structure for Q13501
Species	Human
Immunogen	Recombinant human Sequestosome-1 protein
Conjugate	FITC
Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-10117 / sc-25575
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SQSTM1 antibody	ELISA (EIA)
Related Product Information for anti-SQSTM1 antibody	Autophagy receptor that interacts directly with both the cargo to become degraded and an autophagy modifier of the MAP1 LC3 family. Required both for the formation and autophagic degradation of polyubiquitin-containing bodies, called ALIS (aggresome-like induced structures) and links ALIS to the autophagic machinery. Involved in midbody ring degradation. May regulate the activation of NFKB1 by TNF-alpha, nerve growth factor (NGF) and interleukin-1. May play a role in titin/TTN downstream signaling in muscle cells. May regulate signaling cascades through ubiquitination. Adapter that mediates the interaction between TRAF6 and CYLD (By similarity). May be involved in cell differentiation, apoptosis, immune response and regulation of K(+) channels.
Other Notes	Small volumes of anti-SQSTM1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for SQSTM1 purchase	MBS7044114 is an antibody targeting SQSTM1. Also known as SQSTM1 Antibody, FITC conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SQSTM1. It may not necessarily be applicable to this product.

NCBI GI #	214830438
NCBI GeneID	8878
NCBI Accession #	NP_001135770.1
UniProt Primary Accession #	Q13501
UniProt Secondary Accession #	Q13446; Q9BUV7; Q9BVS6; Q9UEU1; A6NFN7; B2R661; B3KUW5
UniProt Related Accession #	Q13501
GenBank Nucleotide #	NM_001142298.1
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
UniProt Protein Name	Sequestosome-1
UniProt Synonym Protein Names	EBI3-associated protein of 60 kDa; EBIAP; p60; Phosphotyrosine-independent ligand for the Lck SH2 domain of 62 kDa; Ubiquitin-binding protein p62
Protein Family	Sequestosome
UniProt Gene Name	SQSTM1
UniProt Synonym Gene Names	ORCA; OSIL; EBIAP; p60
UniProt Entry Name	SQSTM_HUMAN
NCBI Protein Information	sequestosome-1
NCBI Summary for SQSTM1	This gene encodes a multifunctional protein that binds ubiquitin and regulates activation of the nuclear factor kappa-B (NF-kB) signaling pathway. The protein functions as a scaffolding/adaptor protein in concert with TNF receptor-associated factor 6 to mediate activation of NF-kB in response to upstream signals. Alternatively spliced transcript variants encoding either the same or different isoforms have been identified for this gene. Mutations in this gene result in sporadic and familial Paget disease of bone. [provided by RefSeq, Mar 2009]

UniProt Comments for SQSTM1	SQSTM1: an adapter protein which binds ubiquitin, shuttling proteins to the proteasome. Co-localizes along with the E3 ubiquitin ligase, TRAF6, to aggregates from Alzheimer's disease brains but not in control brain. May regulate the activation of NFKB1 by TNF-alpha, nerve growth factor (NGF) and interleukin-1. May play a role in titin downstream signaling in muscle cells. May regulate signaling cascades through ubiquitination. May be involved in cell differentiation, apoptosis, immune response and regulation of K(+) channels. Forms ternary complexes with PKCZ and Kv-beta2 or PKCZ and GABBR3. Also interacts with KCNAB1, GABRR1, GABRR2 and GABRR3. Interacts with EBI3, LCK, RASA1, PKCZ , PKCI, NR2F2, NTRK1, NTRK2, NTRK3, NBR1, MEK5, TRIM55 and MAPKAPK5. Interacts with the proteasome subunits PSMD4 and PSMC2. Interacts with K63- polyubiquitinated MAPT/TAU. Interacts with IKBKB through PRKCZ and PRKCI. Interacts with NGFR through TRAF6 and bridges that complex to NTRK1. Forms a complex with MEK5 and PRKCZ or PRKCI. Component of a ternary complex with PAWR and PRKCZ. Upon TNF-alpha stimulation, interacts with RIPK1 problably bridging IKBKB to the TNF-R1 complex composed of TNF-R1/TNFRSF1A, TRADD and RIPK1. Forms a complex with JUB/Ajuba, PRKCZ and TRAF6. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Ubiquitin conjugating system; Nuclear receptor co-regulator; Autophagy Chromosomal Location of Human Ortholog: 5q35 Cellular Component: autophagic vacuole; cytoplasm; cytosol; inclusion body; nucleoplasm; PML body Molecular Function: identical protein binding; protein binding; protein kinase binding; protein kinase C binding; receptor tyrosine kinase binding; SH2 domain binding; ubiquitin binding; ubiquitin protein ligase binding Biological Process: autophagy; endosome transport; macroautophagy; negative regulation of apoptosis; positive regulation of apoptosis; positive regulation of macroautophagy; positive regulation of transcription from RNA polymerase II promoter; protein localization; regulation of I-kappaB kinase/NF-kappaB cascade; response to stress; ubiquitin-dependent protein catabolic process Disease: Frontotemporal Dementia And/or Amyotrophic Lateral Sclerosis 3; Paget Disease Of Bone
Research Articles on SQSTM1	**1.** p62 is a novel binding partner for ARIP4, and that its binding regulates the cellular protein level of ARIP4 under conditions of metabolic stress.
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