Sequestosome 1 (SQSTM1) Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	Sequestosome 1 (SQSTM1), Monoclonal Antibody
Full Product Name	PE-Linked Monoclonal Antibody to Sequestosome 1 (SQSTM1)
Product Gene Name	anti-SQSTM1 antibody
Product Synonym Names	Sequestosome 1; OSIL; PDB3; ZIP3; p62; p62B; p60; A170; Paget Disease Of Bone 3; Oxidative Stress Induced Like; EBI3-associated protein of 60 kDa; Ubiquitin-binding protein p62
Clonality	Monoclonal
Isotype	IgG1 Kappa
Clone Number	D12
Host	Mouse
Species Reactivity	Human
Form/Format	Liquid. 0.01M PBS, pH7.4, containing 0.05% Proclin-300, 50% glycerol.
Purity/Purification	Affinity Chromatography
Concentration	>=0.1mg/mL (Please refer to the vial label for the specific concentration.) (lot specific)
Preparation and Storage	Store at 2 degree C to 8 degree C for frequent use, -20 degree C for 12 months Stable for 12 months if correctly stored.
Matching Pairs	Antibody: SQSTM1 Clone #D12 (MBS2148564) Immunogen: SQSTM1 (MBS2018711)
Matching Pairs	Unconjugated Antibody: SQSTM1 Clone #D12 (MBS2151722) PE Conjugated Antibody: SQSTM1 Clone #D12 (MBS2148564)
Molecular Weight	440
Immunogen Sequence Positions	Val136~Gln400
OMIM	gene 602080
3D Structure	ModBase 3D Structure for Q13501
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Conjugation	PE
Product Categories/Family for anti-SQSTM1 antibody	Monoclonal Antibodies (Primary Abs); Primary, PE-conjugated; Signal transduction
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-SQSTM1 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunoprecipitation (IP)
Application Notes for anti-SQSTM1 antibody	WB: 0.5-2ug/mL IHC: 5-20ug/mL ICC: 5-20ug/mL
Related Product Information for anti-SQSTM1 antibody	MBS2148564 is an antibody targeting SQSTM1. Also known as PE-Linked Monoclonal Antibody to Sequestosome 1 (SQSTM1). Reactive in Human. Host: Mouse.

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.

ADDITIONAL DETAILS

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

NCBI GI #	74735628
NCBI GeneID	8878
NCBI Accession #	Q13501.1
UniProt Primary Accession #	Q13501
UniProt Secondary Accession #	Q13446; Q9BUV7; Q9BVS6; Q9UEU1; A6NFN7; B2R661; B3KUW5
UniProt Related Accession #	Q13501
NCBI Official Full Name	Sequestosome-1
NCBI Official Synonym Full Names	sequestosome 1
NCBI Official Symbol	SQSTM1
NCBI Official Synonym Symbols	p60; p62; A170; OSIL; PDB3; ZIP3; p62B
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; EBIAP; EBI3-associated protein p60; oxidative stress induced like; ubiquitin-binding protein p62; EBI3-associated protein of 60 kDa; phosphotyrosine independent ligand for the Lck SH2 domain p62; phosphotyrosine-independent ligand for the
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: Nuclear receptor co-regulator; Autophagy; Ubiquitin conjugating system Chromosomal Location of Human Ortholog: 5q35 Cellular Component: nucleoplasm; PML body; endoplasmic reticulum; lysosome; cytoplasm; late endosome; autophagic vacuole; cytoplasmic vesicle; inclusion body; cytosol Molecular Function: identical protein binding; protein serine/threonine kinase activity; protein binding; ubiquitin binding; protein homodimerization activity; protein kinase C binding; zinc ion binding; SH2 domain binding; receptor tyrosine kinase binding; protein kinase binding Biological Process: regulation of Ras protein signal transduction; ubiquitin-dependent protein catabolic process; nerve growth factor receptor signaling pathway; immune system process; positive regulation of apoptosis; protein heterooligomerization; macroautophagy; endosome transport; protein amino acid phosphorylation; protein localization; response to stress; autophagy; positive regulation of transcription from RNA polymerase II promoter; positive regulation of protein amino acid phosphorylation; cell differentiation; regulation of I-kappaB kinase/NF-kappaB cascade; positive regulation of macroautophagy; negative regulation of apoptosis Disease: Frontotemporal Dementia And/or Amyotrophic Lateral Sclerosis 3; Paget Disease Of Bone
Research Articles on SQSTM1	**1.** Overexpression of p62/SQSTM1 did not alter the levels of light chain 3.
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