# SQSTM1 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | SQSTM1, Polyclonal Antibody |
| **Full Product Name** | SQSTM1, Phosphorylated (S403) (SQSTM1, ORCA, OSIL, Sequestosome-1, EBI3-associated protein of 60kD, Phosphotyrosine-independent ligand for the Lck SH2 domain of 62kD, Ubiquitin-binding protein p62) (APC) |
| **Product Gene Name** | anti-SQSTM1 antibody |
| **Product Synonym Names** | SQSTM1; ORCA; OSIL; Sequestosome-1; EBI3-associated protein of 60kD; Phosphotyrosine-independent ligand for the Lck SH2 domain of 62kD; Ubiquitin-binding protein p62 |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC). |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Preparation and Storage** | Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap. |
| **OMIM** | gene 602080 |
| **3D Structure** | ModBase 3D Structure for Q13501 |
| **Immunogen** | SQSTM1 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S403 of human SQSTM1. |
| **Conjugate** | APC |
| **Antigen Modification** | Phosphorylated |
| **Note** | Preservative Free |
| **Special Handling** | Light sensitive |
| **Product Categories/Family for anti-SQSTM1 antibody** | Antibodies; Ubiquitin |
| **Applications Tested/Suitable for anti-SQSTM1 antibody** | FLISA, Dot Blot (DB) |
| **Application Notes for anti-SQSTM1 antibody** | FLISA: 1:1,000<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-SQSTM1 antibody** | 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. |
| **Product References and Citations for anti-SQSTM1 antibody** | Visconti, M.R., et al. J. Bone Miner. Res. 25(11):2368-2373(2010). Ding, W.X., et al. J. Biol. Chem. 285(36):27879-27890(2010). Gao, C., et al. Nat. Cell Biol. 12(8):781-790(2010). Jain, A., et al. J. Biol. Chem. 285(29):22576-22591(2010). Lau, A., et al. Mol. Cell. Biol. 30(13):3275-3285(2010). |

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| **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** | MBS6350994 is an antibody targeting SQSTM1. Also known as SQSTM1, Phosphorylated (S403) (SQSTM1, ORCA, OSIL, Sequestosome-1, EBI3-associated protein of 60kD, Phosphotyrosine-independent ligand for the Lck SH2 domain of 62kD, Ubiquitin-binding protein p62) (APC). Reactive in Human. Host: Rabbit. |




**Dot Blot (DB) of anti-SQSTM1 antibody**
Dot blot analysis of SQSTM1 Antibody (Phospho S403) Phospho-specific Pab on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.6ug per ml.

## ADDITIONAL DETAILS

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

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| **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 |
| **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; EBI3-associated protein of 60 kDa; EBI3-associated protein p60; EBIAP; oxidative stress induced like; phosphotyrosine independent ligand for the Lck SH2 domain p62; phosphotyrosine-independent ligand for the Lck SH2 domain of 62 kDa; ubiqu |

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| **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.<br><br>Protein type: Nuclear receptor co-regulator; Autophagy; Ubiquitin conjugating system<br><br>Chromosomal Location of Human Ortholog: 5q35<br><br>Cellular Component: nucleoplasm; PML body; endoplasmic reticulum; lysosome; cytoplasm; late endosome; autophagic vacuole; cytoplasmic vesicle; inclusion body; cytosol<br><br>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<br><br>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<br><br>Disease: Frontotemporal Dementia And/or Amyotrophic Lateral Sclerosis 3; Paget Disease Of Bone |
| **Research Articles on SQSTM1** | **1.** The constitutive p62 and Nrf2 expression of transformed cells results in a decrease in ROS generation, apoptosis resistance, and tumorigenesis. |
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