SQSTM1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SQSTM1, Polyclonal Antibody
Full Product Name	SQSTM1
Product Gene Name	anti-SQSTM1 antibody
Product Synonym Gene Name	EBIAP; p60
Product Synonym Names	Sequestosome-1; EBI3-associated protein of 60 kDa; Phosphotyrosine-independent ligand for the Lck SH2 domain of 62 kDa; Ubiquitin-binding protein p62
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Immunogen affinity purified
Preparation and Storage	Aliquot and store at-20 degree C. Avoid repeated freeze/thaw cycles.
Molecular Weight	38,629 Da
OMIM	167250
3D Structure	ModBase 3D Structure for Q13501
Immunogen	Peptide
Storage Buffer	1*TBS (pH7.4), 1% BSA, 40% Glycerol.
Preservative	0.05% Sodium Azide.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SQSTM1 antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC), Flow Cytometry (FC/FACS)
Related Product Information for anti-SQSTM1 antibody	MBS8534726 is an antibody targeting SQSTM1. Reactive in Human, Mouse, Rat. Host: Rabbit.
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 #	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; DMRV; OSIL; PDB3; ZIP3; p62B; NADGP; 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
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	Autophagy receptor required for selective macroautophagy (aggrephagy). Functions as a bridge between polyubiquitinated cargo and autophagosomes. Interacts directly with both the cargo to become degraded and an autophagy modifier of the MAP1 LC3 family (PubMed:16286508, PubMed:20168092, PubMed:24128730, PubMed:28404643, PubMed:22622177). Along with WDFY3, involved in the formation and autophagic degradation of cytoplasmic ubiquitin-containing inclusions (p62 bodies, ALIS/aggresome-like induced structures). Along with WDFY3, required to recruit ubiquitinated proteins to PML bodies in the nucleus (PubMed:24128730, PubMed:20168092). 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 (). May be involved in cell differentiation, apoptosis, immune response and regulation of K+ channels. Involved in endosome organization by retaining vesicles in the perinuclear cloud: following ubiquitination by RNF26, attracts specific vesicle-associated adapters, forming a molecular bridge that restrains cognate vesicles in the perinuclear region and organizes the endosomal pathway for efficient cargo transport (PubMed:27368102).
Research Articles on SQSTM1	**1.** IFN-gamma induces activated but insufficient autophagy and thus contributes to a degree to p62-dependent apoptosis of nasal epithelial cells in chronic rhinosinusitis with nasal polyps.
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