10320 Camino Santa Fe, Suite A
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SQSTM1 Antibody
Catalog # ASM10517

Specification

SQSTM1 Antibody - Product Information

Application	**WB, ICC**
Primary Accession	Q13501
Other Accession	NP_001135770.1
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**

Description
Rabbit Anti-Human SQSTM1 Polyclonal

Target/Specificity
Detects ~60 kDa. Band at 40 kDa is isoform 2.

Other Names
EBI3-associated protein of 60 kDa Antibody, ORCA Antibody, Osi Antibody, SQSTM 1 Antibody, ZIP 3 Antibody, A170 Antibody, SQSTM1 Antibody, Ubiquitin binding protein p62 Antibody, Protein kinase C-zeta-interacting protein Antibody, FTDALS3 Antibody, Ubiquitin-binding protein p62 Antibody, PKC-zeta-interacting protein Antibody, EBIAP Antibody, Sqstm1 Antibody, Phosphotyrosine independent ligand for the Lck SH2 domain of 62 kDa Antibody, EBI3 associated protein p60 Antibody, EBI3 associated protein of 60 kDa Antibody, SQSTM_HUMAN Antibody, OSF-6 Antibody, Paget disease of bone 3 Antibody, p62B Antibody, p60 Antibody, PDB 3 Antibody, EBI 3 associated protein p60 Antibody, MGC127197 Antibody, Phosphotyrosine-independent ligand for the Lck SH2 domain of 62 kDa Antibody, EBI 3 associated protein of 60 kDa Antibody, ZIP3 Antibody, STAP Antibody, p62 Antibody, Sequestosome 1 Antibody, OSIL Antibody, STONE14 Antibody, Phosphotyrosine independent ligand for the Lck SH2 domain p62 Antibody, PDB3 Antibody, Oxidative stress induced like Antibody, Sequestosome-1 Antibody, ZIP Antibody,

Immunogen
Synthetic peptide from the N-terminal to mid of Human SQSTM1 (aa. 195-205)

Purification
Peptide Affinity Purified

Storage	**-20ºC**

Storage Buffer
PBS, 50% glycerol, 0.09% sodium azide

Shipping Temperature	**Blue Ice or 4ºC**

Certificate of Analysis
A 1:1000 dilution of SPC-636 was sufficient for detection of SQSTM1 in 15 µg of Human HeLa Cell Lysates by ECL immunoblot analysis using goat anti-rabbit IgG:HRP as the secondary antibody.

Cellular Localization
Cytoplasm | Late Endosome | Lysosome | Cytoplasmic Vesicle | Autophagosome | Nucleus | Endoplasmic Reticulum | Cytoplasm | P-Body

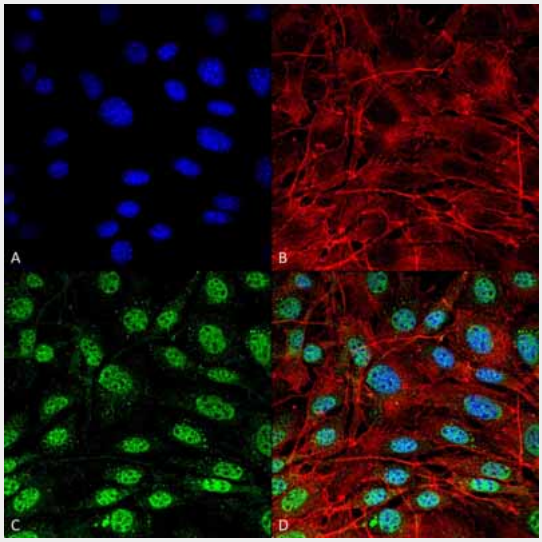
10320 Camino Santa Fe, Suite A
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SQSTM1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

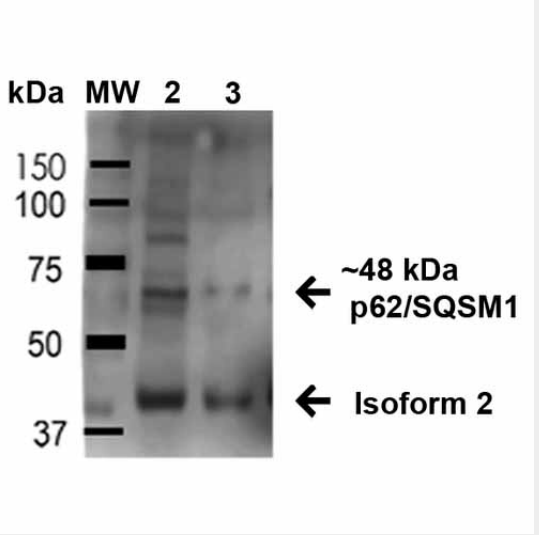
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SQSTM1 Antibody - Images



Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-SQSTM1 Polyclonal Antibody (ASM10517). Tissue: NIH 3T3 (Mouse Fibroblast cell line). Species: Mouse. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Rabbit Anti-SQSTM1 Polyclonal Antibody (ASM10517) at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Rabbit ATTO 488 at 1:200 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60 min at RT, 5 min at RT. Localization: Cytoplasm, Late Endosome, Lysosome, Cytoplasmic Vesicle, Autophagosome, Nucleus, Endoplasmic Reticulum. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) SQSTM1 Antibody (D) Composite.

10320 Camino Santa Fe, Suite A
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



Western blot analysis of Human HeLa and 293Trap cell lysates showing detection of 47.7 kDa SQSTM1 protein using Rabbit Anti-SQSTM1 Polyclonal Antibody (ASM10517). Lane 1: Molecular Weight Ladder (MW). Lane 2: Human HeLa and 293Trap cell lysates. Load: 15 µg . Block: 5% Skim Milk in 1X TBST. Primary Antibody: Rabbit Anti-SQSTM1 Polyclonal Antibody (ASM10517) at 1:1000 for 1 hour at RT. Secondary Antibody: Goat Anti-Rabbit HRP at 1:2000 for 60 min at RT. Color Development: ECL solution for 6 min in RT. Predicted/Observed Size: 47.7 kDa. Other Band(s): ~65 kDa in all lysates.

SQSTM1 Antibody - Background

SQSTM1 or Sequestome 1 (p62) is a ubiquitin binding protein that interacts with ubiqutin, providing a scaffold for several signaling proteins and triggering degradation of proteins throught the proteasome or lysossome. This gene 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. Mutations in this gene result in sporadic and familial Paget disease of bone. SQSTM1 also binds autophagosomal membrane protein LC3/ATG8.

SQSTM1 Antibody - References

1. Kirkin V., et al. (2009) Mol Cell. 34: 259-269.
2. Seibenhener M.L., et al. (2007) FEBS Lett. 581: 175-179.
3. Komatsu M., et al. (2010) Nat Cell Biol. 12: 213-223.
4. Bjørkøy G., et al. (2006) Autophagy. 2: 138-139.
5. Pankiv S., et al. (2007) J Biol Chem. 282: 24131-24145.