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Sqstm1(S351) Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20690b

Specification

Sqstm1(S351) Antibody - Product Information

Application	**WB,E**
Primary Accession	Q64337
Other Accession	O08623, Q13501
Reactivity	**Human, Mouse**
Predicted	**Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**

Sqstm1(S351) Antibody - Additional Information

Gene ID 18412

Other Names
Sequestosome-1, STONE14, Ubiquitin-binding protein p62, Sqstm1, A170, STAP

Target/Specificity
This Phospho-Sqstm1(S351) antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 346-379 amino acids from the human region of human Phospho-Sqstm1(S351).

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Sqstm1(S351) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Sqstm1(S351) Antibody - Protein Information

Name Sqstm1

Synonyms A170, STAP

Function Autophagy receptor required for selective macroautophagy (aggrephagy) (By similarity). Functions as a bridge between polyubiquitinated cargo and autophagosomes (By similarity). Interacts directly with both the cargo to become degraded and an autophagy modifier of the MAP1 LC3 family (By similarity). Along with WDFY3, involved in the formation and autophagic degradation of cytoplasmic ubiquitin-containing inclusions (p62 bodies, ALIS/aggresome-like induced structures) (By similarity). Along with WDFY3, required to recruit ubiquitinated proteins to PML bodies in the nucleus (By similarity). Also involved in autophagy of peroxisomes (pexophagy) in response to reactive oxygen species (ROS) by acting as a bridge between ubiquitinated PEX5 receptor and autophagosomes (By similarity). May regulate the activation of NFKB1 by TNF-alpha, nerve growth factor (NGF) and interleukin-1 (By similarity). May play a role in titin/TTN downstream signaling in muscle cells (By similarity). May regulate signaling cascades through ubiquitination (By similarity). Adapter that mediates the interaction between TRAF6 and CYLD (PubMed:14960283, PubMed:18382763). May be involved in cell differentiation, apoptosis, immune response and regulation of K(+) channels (By similarity). 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 (By similarity). Promotes relocalization of 'Lys-63'-linked ubiquitinated STING1 to autophagosomes (By similarity). Acts as an activator of the NFE2L2/NRF2 pathway via interaction with KEAP1: interaction inactivates the BCR(KEAP1) complex, promoting nuclear accumulation of NFE2L2/NRF2 and subsequent expression of cytoprotective genes (PubMed:20421418, PubMed:20173742, PubMed:24011591). Sequesters tensin TNS2 into cytoplasmic puncta, promoting TNS2 ubiquitination and proteasomal degradation (By similarity).

Cellular Location
Cytoplasm, cytosol. Preautophagosomal structure {ECO:0000250|UniProtKB:Q13501}. Late endosome. Nucleus Endoplasmic reticulum. Lysosome. Cytoplasmic vesicle, autophagosome Nucleus, PML body {ECO:0000250|UniProtKB:Q13501}. Cytoplasm, myofibril, sarcomere. Note=In cardiac muscles, localizes to the sarcomeric band (By similarity). May also localize to the hepatocellular carcinoma (By similarity). Colocalizes with TRIM13 in the perinuclear endoplasmic reticulum (By similarity). Commonly found in inclusion bodies containing polyubiquitinated protein aggregates (PubMed:20421418). Co- localizes with TRIM5 in the cytoplasmic bodies (By similarity). When nuclear export is blocked by treatment with leptomycin B, accumulates in PML bodies (By similarity). {ECO:0000250|UniProtKB:Q13501, ECO:0000269|PubMed:20421418}

Tissue Location
Widely expressed..

Sqstm1(S351) 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(S351) Antibody - Images

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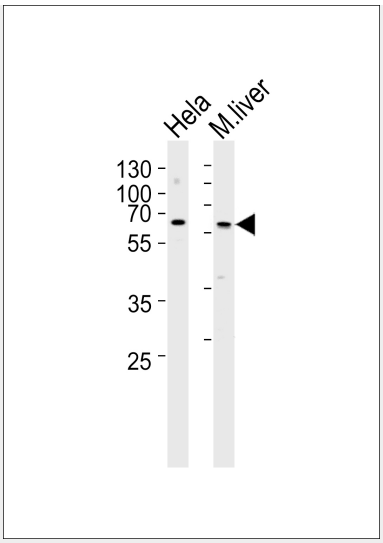

Western blot analysis of lysates from Hela cell line and mouse liver tissue lysate(from left to right), using Sqstm1(S351) Antibody Cat. #AP20690b). AP20690b was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.

Sqstm1(S351) Antibody - Background

Required both for the formation and autophagic degradation of polyubiquitin-containing bodies, called ALIS (aggresome-like induced structures). Links ALIS to the autophagic machinery via direct interaction with MAP1 LC3 family members. 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. May be involved in cell differentiation, apoptosis, immune response and regulation of K(+) channels. Adapter that mediates the interaction between TRAF6 and CYLD.

Sqstm1(S351) Antibody - References

Ishii T.,et al.Biochem. Biophys. Res. Commun. 226:456-460(1996).
Morris J.C.,et al.Submitted (MAY-1996) to the EMBL/GenBank/DDBJ databases.
Carninci P.,et al.Science 309:1559-1563(2005).
Church D.M.,et al.PLoS Biol. 7:E1000112-E1000112(2009).
Ishii T.,et al.Biochem. Biophys. Res. Commun. 232:33-37(1997).

Sqstm1(S351) Antibody - Citations

- Systematic analysis of ribophagy in human cells reveals bystander flux during selective autophagy.