

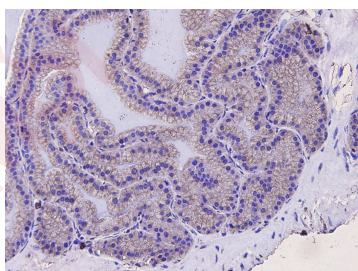
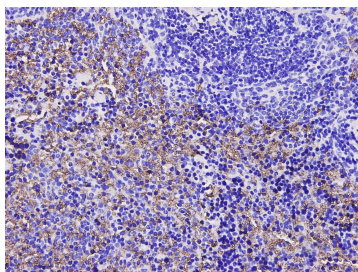
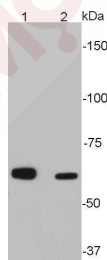
Anti-Sequestosome-1 Antibody (4X151)

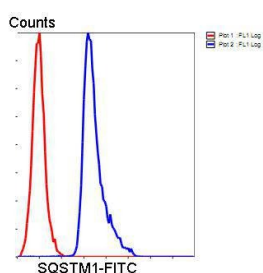
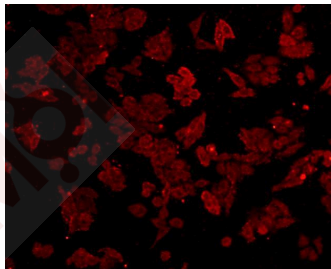
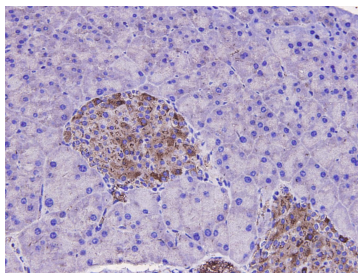
Product Details

Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 62 kDa.
Clone:	4X151
Purification:	Peptide affinity purified.

Applications

1. Western blot analysis of SQSTM1 on different cell lysates using anti-SQSTM1 antibody at 1/500 dilution. Positive control: Lane1: HeLa, Lane2: HepG2.
2. Immunohistochemical analysis of paraffin-embedded mouse spleen tissue using anti-SQSTM1 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded mouse prostate tissue using anti-SQSTM1 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded mouse pancreas tissue using anti-SQSTM1 antibody. Counter stained with hematoxylin.
5. ICC staining SQSTM1 in HepG2 cells (red). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
6. Flow cytometric analysis of HeLa cells with SQSTM1 antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Goat anti mouse IgG (FITC) was used as the secondary antibody.





Application: FCM, ICC, IHC

Recommended WB: 1:500-1000; IHC: 1:200; ICC: 1:200; FCM: 1 µg per 1 x 10⁶ cells

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: within human SQSTM1 40-100 aa

Antigen Species: Human

Uniprot ID: Q13501

Synonyms: SQSTM1;ORCA;p60);EBI3-associated protein of 60 kDa(EBIAP;OSIL;phosphotyrosine-independent ligand for the Lck SH2 domain of 62 kDa;Sequestosome-1;Ubiquitin-binding protein p62

Research Background

Sequestosome 1 (SQSTM1, p62) is a ubiquitin binding protein involved in cell signaling, oxidative stress and autophagy. It was first identified as a protein that binds to the SH2 domain of p56Lck and independently found to interact with PKC ζ . SQSTM1 was subsequently found to interact with ubiquitin, providing a scaffold for several signaling proteins and triggering degradation of proteins through the proteasome or lysosome. Interaction between SQSTM1 and TRAF6 leads to the K63-linked polyubiquitination of TRAF6 and subsequent activation of the NF- κ B pathway. It may play a role in titin/TTN downstream signaling in muscle cells and regulate signaling cascades through ubiquitination. P62 may be involved in cell differentiation, apoptosis, immune response and regulation of K⁺ channels.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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