

Anti-SQSTM1 / p62 Antibody

R1309-8



Product Type:	Rabbit polyclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IF-Cell, IHC-P
Molecular Wt:	62kDa

Description: 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.

Immunogen: Synthetic peptide within human TESPA1 aa 27-91.

Positive control: HeLa, F9, HepG2, human ovary carcinoma tissue

Subcellular location: Cytoplasm

Database links: SwissProt: Q13501 Human

Recommended Dilutions:

WB	1:500-1:1,000
IF-Cell	1:200
IHC-P	1:200

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Purity: Immunogen affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

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Images

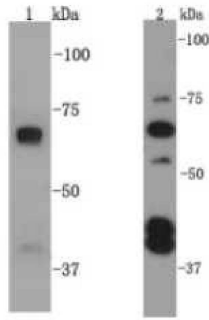


Fig1: Western blot analysis on HeLa (1) and F9 (2) cell lysates using anti-SQSTM1 rabbit polyclonal antibodies.

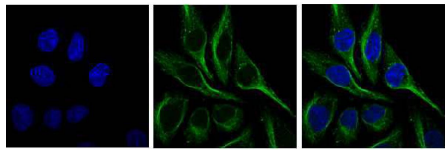


Fig2: ICC staining SQSTM1 in HepG2 cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS and counterstained with DAPI in order to highlight the nucleus (blue).

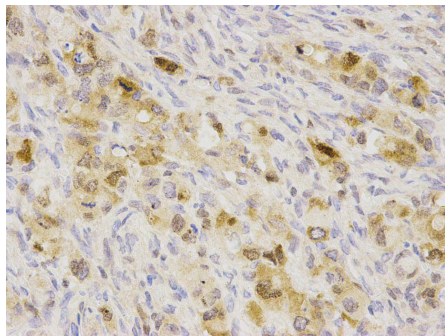


Fig3: Immunohistochemical analysis of paraffin-embedded human ovary carcinoma tissue using anti- SQSTM1 rabbit polyclonal antibody.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. "p62 overexpression in breast tumors and regulation by prostate-derived Ets factor in breast cancer cells." Thompson H.G.R., Harris J.W., Wold B.J., Lin F., Brody J.P. *Oncogene* 22:2322-2333(2003)
2. "Ubiquitin recognition by the ubiquitin-associated domain of p62 involves a novel conformational switch." Long J., Gallagher T.R., Cavey J.R., Sheppard P.W., Ralston S.H., Layfield R., Searle M.S. *J. Biol. Chem.* 283:5427-5440(2008)

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