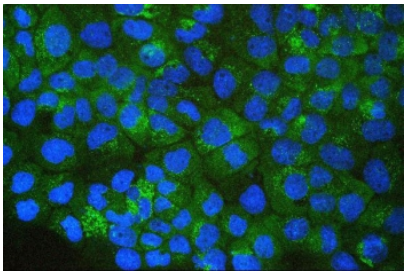
SQSTM1 Antibody / p62 [clone 3H11] (RQ5514)

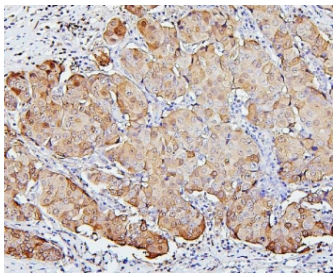
Catalog No.	Formulation	Size
RQ5514	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

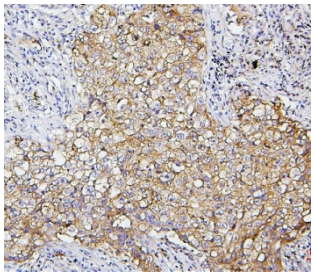
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a
Clone Name	3H11
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q13501
Localization	Cytoplasmic, membranous, nuclear
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 1-2ug/ml Flow cytometry: 1-3ug/million cells Immunofluorescence: 2-4ug/ml
Limitations	This SQSTM1 antibody is available for research use only.



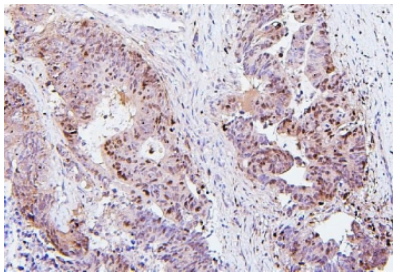
Immunofluorescent staining of FFPE human A431 cells with SQSTM1 antibody (green) and DAPI (blue). HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



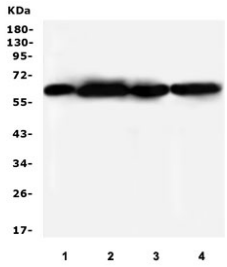
IHC staining of FFPE human breast cancer with SQSTM1 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



IHC staining of FFPE human lung cancer with SQSTM1 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



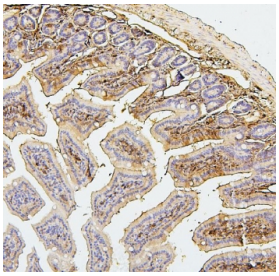
IHC staining of FFPE human colon cancer with SQSTM1 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



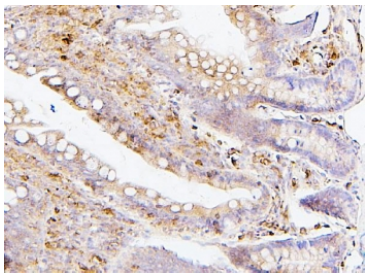
Western blot testing of human 1) CCRF-CEM, 2) HepG2, 3) HT1080, 4) SW620 lysate with SQSTM1 antibody. Routinely observed at ~62 kDa.



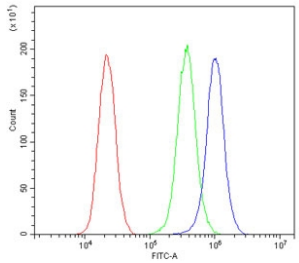
Western blot testing of 1) rat brain, 2) rat liver, 3) rat PC-12, 4) rat RH35, 5) mouse brain, 6) mouse liver, 7) mouse NIH3T3, 8) mouse RAW246.7 and 9) mouse Neuro-2a lysate with SQSTM1 antibody. Routinely observed at ~62 kDa.



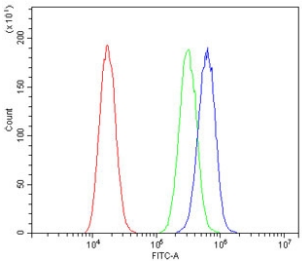
IHC staining of FFPE mouse intestine with SQSTM1 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



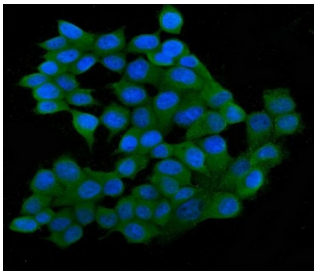
IHC staining of FFPE rat intestine with SQSTM1 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



Flow cytometry testing of human PC-3 cells with SQSTM1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= SQSTM1 antibody.



Flow cytometry testing of human A549 cells with SQSTM1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= SQSTM1 antibody.



Immunofluorescent staining of FFPE human MCF7 cells with SQSTM1 antibody (green) and DAPI (blue). HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.

Description

SQSTM1 (Sequestosome-1), also known as Ubiquitin-Binding Protein P62 or P62, is a protein that in humans is encoded by the SQSTM1 gene. The Src homology type 2 (SH2) domain is a highly conserved motif of about 100 amino acids which mediates protein-protein interactions by binding to phosphotyrosine.p56-lck, a T-cell-specific src family tyrosine kinase with an SH2 domain, is involved in T-cell signal transduction. The International Radiation Hybrid Mapping Consortium mapped the p62 gene to chromosome 5q35. Park et al. (1995) found that the p56-lck SH2 domain binds to p62 at the ser59 of p62 only when that serine is phosphorylated. Joung et al. (1996) expressed epitope-tagged p62 in Hela cells and showed that the expressed protein bound to the lck SH2 domain and that this binding was dependent on the N-terminal 50 amino acids of p62 but not on the tyrosine residue in this region.

Application Notes

Optimal dilution of the SQSTM1 antibody should be determined by the researcher.

Immunogen

Amino acids DEDGDLVAFSSDEELTMAMSYVKDDIFR were used as the immunogen for the SQSTM1 antibody.

Storage

After reconstitution, the SQSTM1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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