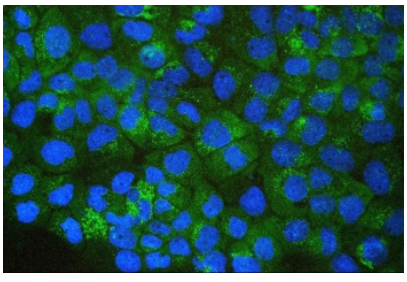
# SQSTM1 Antibody / p62 [clone 3H11] (RQ5514)

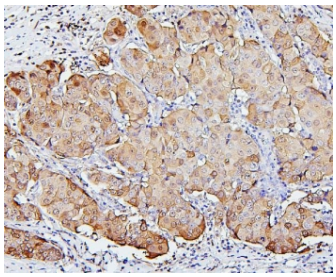
| Catalog No. | Formulation | Size |
|---|---|---|
| RQ5514 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

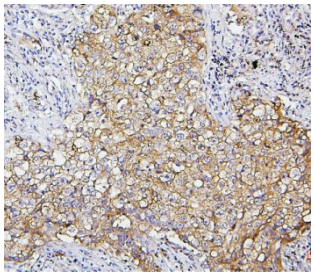
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Antigen affinity purified |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG2a |
| **Clone Name** | 3H11 |
| **Purity** | Affinity purified |
| **Buffer** | Lyophilized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



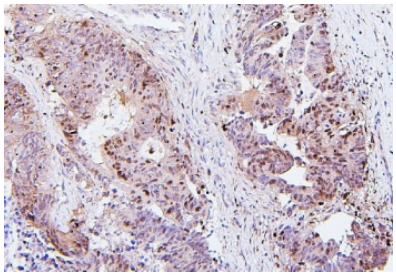
Immunofluorescent staining of FFPE human A431 cells with SQSTM1 antibody (green) and DAPI (blue). HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



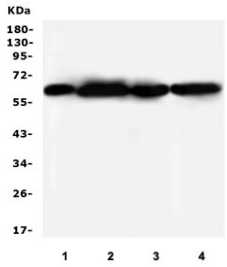
IHC staining of FFPE human breast cancer with SQSTM1 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



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.

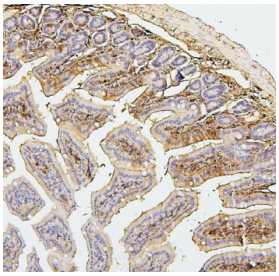


IHC staining of FFPE human colon cancer with SQSTM1 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.

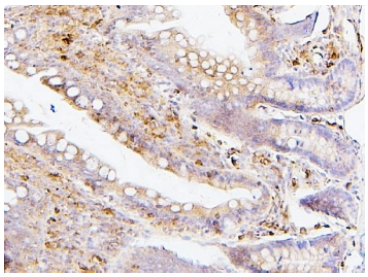



Western blot testing of human 1) CCRF-CEM, 2) HepG2, 3) HT1080, 4) SW620 lysate with SQSTM1 antibody. Routinely observed at ~62 kDa.

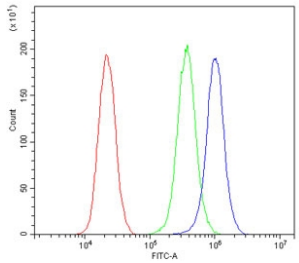

Western blot testing of 1) rat brain, 2) rat liver, 3) rat PC-12, 4) rat RH35, 5) mouse brain, 6) mouse liver, 7) mouse NIH3T3, 8) mouse RAW246.7 and 9) mouse Neuro-2a lysate with SQSTM1 antibody. Routinely observed at ~62 kDa.



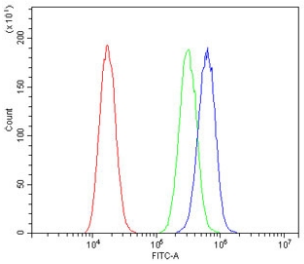
IHC staining of FFPE mouse intestine with SQSTM1 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



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.

## 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.