# Product Data Sheet: SQSTM1/ P62

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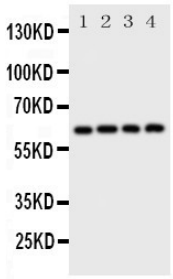
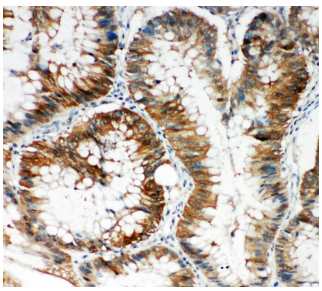
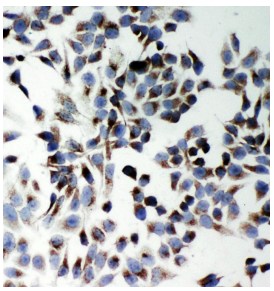
|---|---|
| **Cat. No:** | AB-81677 |
| **Size:** | 100 ug |
| **Clone:** | POLY |
| **Concentration:** | 1mg/ml |
| **Host:** | Rb |
| **Isotype:** | IgG |
| **Immunogen:** | A synthetic peptide corresponding to a sequence at the N-terminus of human SQSTM1(91-110aa KDDIFRIYIKEKKECRRDHR), different from the related rat and mouse sequences by one amino acid. |
| **Reactivity:** | Hu, Ms, Rt |
| **Applications:** | Western Blot: 1:1000-1:5000<br>Immunohistochemistry (paraffin-embedded tissues): 1:500-1:1000<br>Immunohistochemistry (frozen section): 1:500-1:1000<br>Immunocytochemistry: 1:500-1:1000<br>Immunofluorescence: 1:500 |
| **Molecular Weight:** | 62kDa |
| **Purification:** | Aff. Pur. |
| **Background:** | 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. |
| **Form:** | Liquid |
| **Buffer:** | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3. |
| **Storage:** | At -20˚C for one year. at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing. |



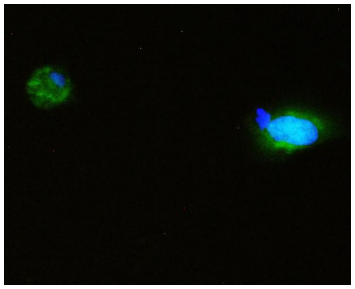
Anti-SQSTM1/p62 antibody, Western


Anti-SQSTM1/p62 antibody, IHC(P)


Anti-SQSTM1/p62 antibody, ICC

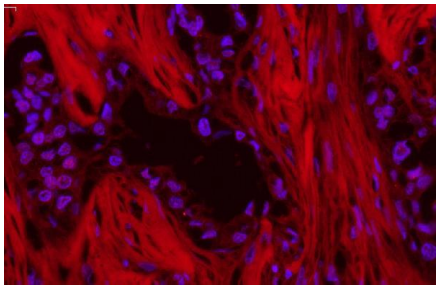
# Product Data Sheet:
# SQSTM1/ P62

blotting
Lane 1: Rat Brain Tissue Lysate
Lane 2: HELA Cell Lysate
Lane 3: U87 Cell Lysate
Lane 4: A549 Cell Lysate



Immunofluorescence analysis of SQSTM1 using anti-SQSTM1 antibody. SQSTM1 was detected in immunocytochemical section of A431 cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins.
The cells were blocked with 10% goat serum. And then incubated with 2ug/mL rabbit anti-SQSTM1 Antibody overnight at 4°C. Alexa Fluor 488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI.

IHC(P): Human Intestinal Cancer Tissue



Immunofluorescence analysis of SQSTM1/p62 using anti-SQSTM1/p62 antibody SQSTM1/p62 was detected in paraffin-embedded section of human lung cancer tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution ) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/mL rabbit anti-SQSTM1/p62 Antibody overnight at 4°C. Cy3 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI.

ICC: Hela Cell