Product datasheet

Anti-P62/SQSTM1 Antibody

Catalog Number: *BA2849*

BOSTER®
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-P62/SQSTM1 Antibody
Gene Name	SQSTM1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, ICC/IF, FCM
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human SQSTM1, different from the related rat and mouse sequences by one amino acid.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	62 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow Cytometry (Fixed): 1:50-200 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

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

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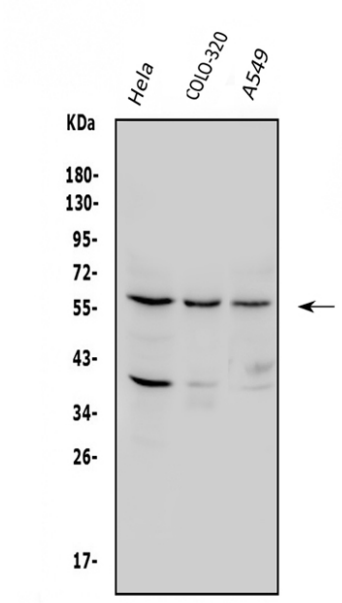
Hela cells and showed that the expressed protein bound to the lck SH2 domain and that this binding was dependent on the N-terminal 50 amino acids of p62 but not on the tyrosine residue in this region.

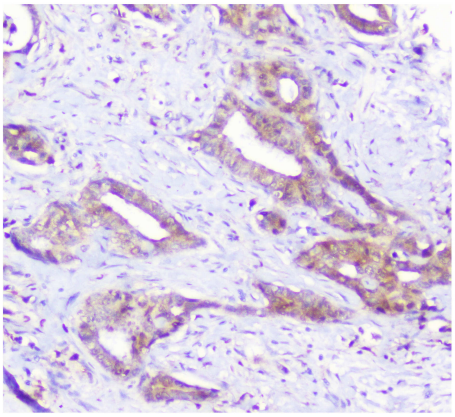
Reference

Anti-P62/SQSTM1 Antibody被引用在23文献中。

Selected Validation Data



Western blot analysis of P62/SQSTM1 using anti-P62/SQSTM1 antibody (BA2849). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human HELA whole cell lysates,
Lane 2: human COLO-320 whole cell lysates,
Lane 3: human A549 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-P62/SQSTM1 antigen affinity purified polyclonal antibody (BA2849) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for P62/SQSTM1 at approximately 62 kDa. The expected band size for P62/SQSTM1 is at 48 kDa.



IHC analysis of P62/SQSTM1 using anti-P62/SQSTM1 antibody (BA2849).
P62/SQSTM1 was detected in a paraffin-embedded section of human Cholangiocarcinoma tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-P62/SQSTM1 Antibody (BA2849) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.

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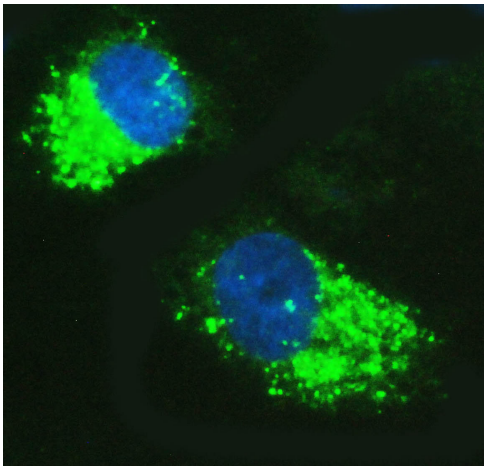
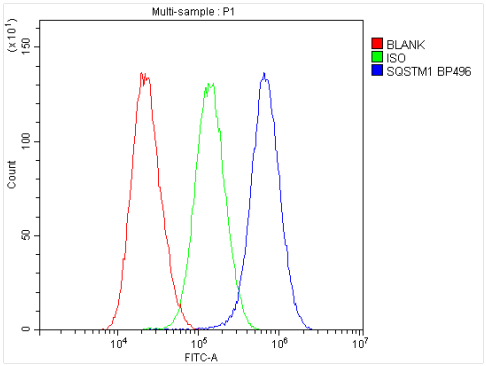


ICC/IF analysis of P62/SQSTM1 using anti-P62/SQSTM1 antibody (BA2849).
P62/SQSTM1 was detected in an immunocytochemical section of A549 cells. The section was incubated with rabbit anti-P62/SQSTM1 Antibody (BA2849) at a dilution of 1:100. Fluoro488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



Flow cytometry analysis of A549 cell(1:100) Fluoro 488 conjugated goat anti-rabbit IgG(blue) was used as secondary antibody. Isotype control antibody (Green line) was rabbit IgG Fluoro 488. Unlabelled sample (Red line).