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Anti-p62/SQSTM1 Rabbit Monoclonal Antibody

Catalog Number: M00300

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Overview

Product Name	Anti-p62/SQSTM1 Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-p62/SQSTM1 Rabbit Monoclonal Antibody catalog # M00300. Tested in WB, IHC, ICC/IF, Flow Cytometry, IP applications. This antibody reacts with Human, Mouse, Rat.
Application	Flow Cytometry, IP, IF, IHC, ICC, WB
Clonality	Monoclonal EBB-19
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q13501

Technical Details

Immunogen	A synthesized peptide derived from human p62/SQSTM1
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5mg/ml
Purification	Affinity-chromatography
Suggested Dilutions	WB, 1:500-2000

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	IHC, 1:50-200 ICC/IF, 1:50-200 IP, 1:50 FC, 1:50

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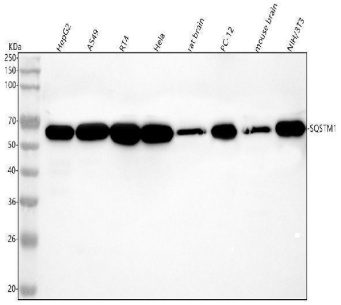
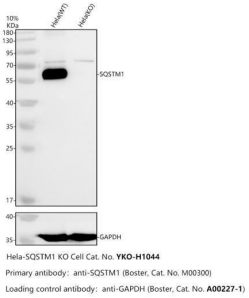
Anti-p62/SQSTM1 Rabbit Monoclonal Antibody (M00300) Images



Western blot analysis of p62/SQSTM1 using anti-p62/SQSTM1 antibody (M00300). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human HepG2 whole cell lysates, Lane 2: human A549 whole cell lysates, Lane 3: human RT4 whole cell lysates, Lane 4: human Hela whole cell lysates, Lane 5: rat brain tissue lysates, Lane 6: rat PC-12 whole cell lysates, Lane 7: mouse brain tissue lysates, Lane 8: mouse NIH/3T3 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-p62/SQSTM1 antigen affinity purified monoclonal antibody (Catalog # M00300) at 1:5000 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:1000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for p62/SQSTM1 at approximately 62 kDa. The expected band size for p62/SQSTM1 is at 48 kDa.



Western blot analysis of P62/SQSTM1 using anti-P62/SQSTM1 antibody (M00300). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hela- WT whole cell lysates, Lane 2: human Hela-SQSTM1 KO whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-P62/SQSTM1 antigen affinity purified monoclonal antibody (M00300) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. 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 (M00300). p62/SQSTM1 was detected in a paraffin-embedded section of human colorectal adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-

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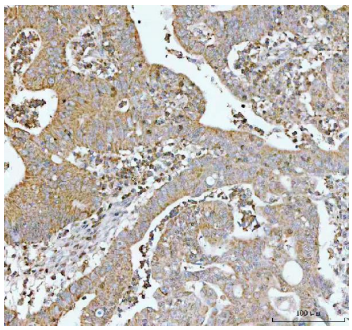
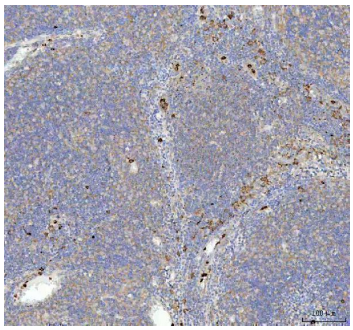
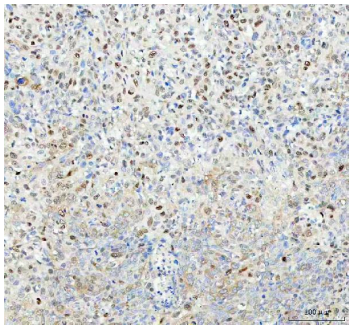


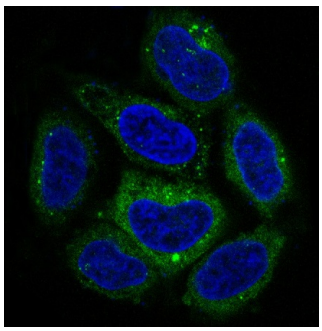
p62/SQSTM1 Antibody (M00300) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of p62/SQSTM1 using anti-p62/SQSTM1 antibody (M00300). p62/SQSTM1 was detected in a paraffin-embedded section of human spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-p62/SQSTM1 Antibody (M00300) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of p62/SQSTM1 using anti-p62/SQSTM1 antibody (M00300). p62/SQSTM1 was detected in a paraffin-embedded section of human cervix squamous cell carcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-p62/SQSTM1 Antibody (M00300) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



Immunofluorescent analysis of Hela cells, using p62/SQSTM1 Antibody.

Immunofluorescent analysis using the Antibody at 1:50 dilution.

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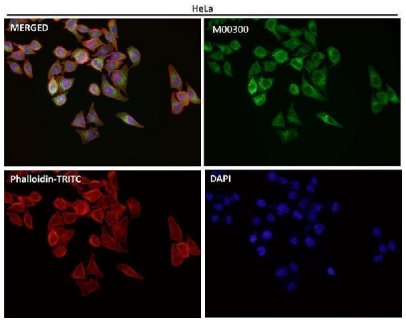

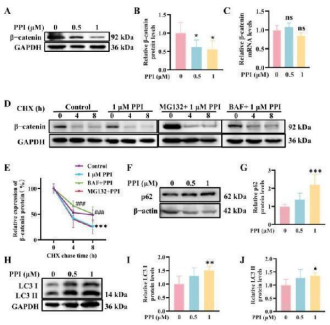

The depletion of beta-catenin triggered by PPI is mediated through the process of autophagy. (A , B) The effect of different concentrations of PPI on the expression levels of beta-catenin protein in HO-8910PM cells following a 6-h treatment was assessed using a Western blot assay, and the resulting data were further subjected to quantitative analysis. (C) qRT-PCR analysis of beta-catenin mRNA levels in PPI-treated cells. (D) Assessment of the impact of PPI on beta-catenin protein degradation: HO-8910PM cells were exposed to PPI (1 uM) either alone or in combination with either MG132 (20 uM), which is a proteasome inhibitor, or BAF (200 nM), which is an autophagy inhibitor, for 6 h. Subsequently, the cells were subjected to CHX (100 μg/mL) treatment for the indicated durations. (E) The quantification results of (D). (F , G) The effect of different concentrations of PPI on the expression levels of p62 protein in HO-8910PM cells following a 6-h treatment was assessed by WB, and the resulting data were subjected to quantitative analysis. (H – J) The effect of different concentrations of PPI on the expression levels of LC3 I and LC3 II proteins in HO-8910PM cells following a 6-h treatment was assessed by WB, and the resulting data were subjected to quantitative analysis. Data from six independent experiments are presented as mean ± S.D. *: $p < 0.05$; **: $p < 0.01$; ***: $p < 0.001$ vs. control; ###: $p < 0.001$ vs. 1 uM PPI.Index in PubMed under a CC BY license. PMID: 40429774

7 Publications Citing This Product

1. PubMed ID: 32425551, Liu X,Feng C,Wei G,Kong W,Meng H,Du Y,Li J.Mitofusin1 Is a Major Mediator in Glucose-Induced Epithelial-to-Mesenchymal Transition in Lung Adenocarcinoma Cells.Onco Targets Ther.2020 Apr 24;13:3511-3523.doi:10.2147/OTT.S238714.PMID:32425551;PMCID:PMC718794

2. PubMed ID: 32015954, Yuan H,Wang Y,Chen H,Cai X.Protective effect of flavonoids from Rosa roxburghii Tratt on myocardial cells via autophagy.3 Biotech.2020 Feb;10(2):58.doi:10.1007/s13205-019-2049-1.Epub 2020 Jan 22.PMID: 32015954;PMCID:PMC6976074.

3. PubMed ID: 31900522, Song L,Yao L,Zhang L,Piao Z,Lu Y.Schizandrol A protects against Abeta1-42-induced autophagy via activation of PI3K/AKT/mTOR pathway in SH-SY5Y cells and primary hippocampal neurons.Naunyn Schmiedebergs Arch Pharmacol.2020 Sep;393(9):1739-1752.doi:10.1007/s00

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