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Anti-SQSTM1 / p62 Rabbit Monoclonal Antibody

Catalog Number: M00300-3

Overview

Product Name	Anti-SQSTM1 / p62 Rabbit Monoclonal Antibody
Reactive Species	Human
Description	Boster Bio Anti-SQSTM1 / p62 Rabbit Monoclonal Antibody catalog # M00300-3. Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human.
Application	Flow Cytometry, IP, IF, IHC, ICC, WB
Clonality	Monoclonal 21S51
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 SQSTM1 / p62
Isotype	IgG
Form	Liquid
Concentration	0.5mg/ml
Purification	Affinity-chromatography
Suggested Dilutions	WB 1:500-2000 IHC 1:50-200 ICC/IF 1:50-200 IP 1:50 FC 1:50

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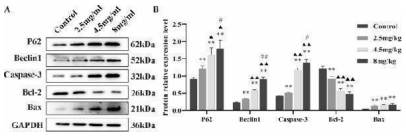
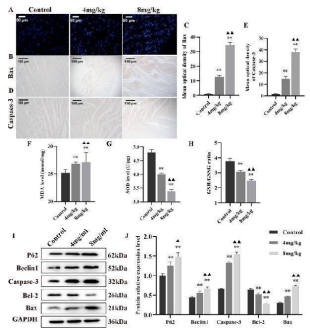
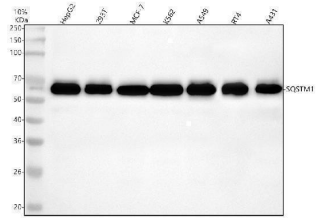
Anti-SQSTM1 / p62 Rabbit Monoclonal Antibody (M00300-3) Images



Inetetamab regulated the expression levels of apoptosis- and autophagy-related proteins of the H9c2 cells in a dose-dependant manner. (A) Inetetamab modulated the expression levels of P62, Beclin 1, Caspase-3, Bcl-2 and Bax proteins in the H9c2 cells. (B) The quantification of the aforementioned proteins was conducted in the H9c2 cells from A (n = 3). ** P



Inetetamab induced myocardial injury in mice through the enhancement of apoptosis and autophagy in a dose-dependent manner. (A) Hochest 33,342 staining showed that Inetetamab enhanced myocardial cell apoptosis. (B , D) Immunohistochemistry analysis demonstrated that Inetetamab upregulated the expression levels of Bax and Caspase-3 proteins in the myocardial tissues. (C , E) The quantification of Bax and Caspase-3 levels was determined from B and D (n = 5). (F) Inetetamab enhanced MDA levels in the myocardial tissues (n = 5). (G) Inetetamab reduced SOD levels in the myocardial tissues (n = 5). (H) Inetetamab reduced the GSH/GSSH ratio in the myocardial tissues (n = 5). (I) Inetetamab modulated the expression levels of P62, Beclin 1, Caspase-3, Bcl-2 and Bax proteins in the myocardial tissues. (J) The quantification of the aforementioned proteins was conducted from I (n = 3). ** P



Western blot analysis of P62/SQSTM1 using anti-P62/SQSTM1 antibody (M00300-3). 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 293T whole cell lysates, Lane 3: human MCF-7 whole cell lysates, Lane 4: human K562 whole cell lysates, Lane 5: human A549 whole cell lysates, Lane 6: human RT4 whole cell lysates, Lane 7: human A431 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 (M00300-3) at 1:500 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 1:500 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.

IHC analysis of P62/SQSTM1 using anti-P62/SQSTM1 antibody (M00300-3) . P62/SQSTM1 was detected in a paraffin-embedded section of human liver tissue. Heat

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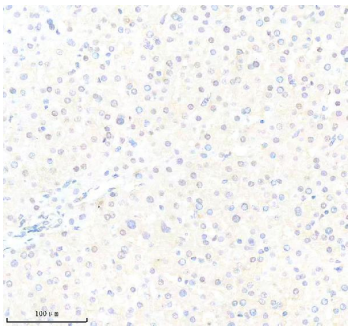
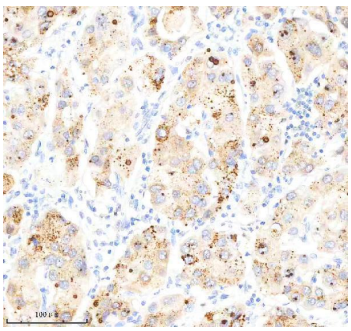
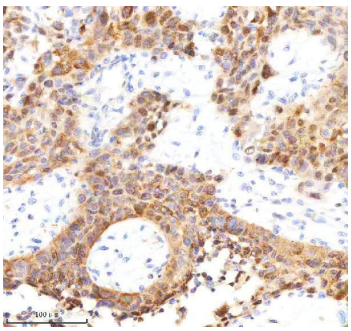


mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-P62/SQSTM1 Antibody (M00300-3) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG 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 (M00300-3) . P62/SQSTM1 was detected in a paraffin-embedded section of human liver cancer 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 2 ug/ml rabbit anti-P62/SQSTM1 Antibody (M00300-3) 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 (M00300-3) . P62/SQSTM1 was detected in a paraffin-embedded section of human lung cancer 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 2 ug/ml rabbit anti-P62/SQSTM1 Antibody (M00300-3) 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.

1 Publications Citing This Product

1. PubMed ID: 10.1089/ars.2017.7044, Flow-Responsive Vascular Endothelial Growth Factor Receptor-Protein Kinase C Isoform Epsilon Signaling Mediates Glycolytic Metabolites for Vascular Repair

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