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antibody and ELISA experts

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Anti-p62/SQSTM1 Rabbit Monoclonal Antibody

Catalog Number: M00300

About SQSTM1

C3 plays a central role in the activation of the complement system. Its processing by C3 convertase is the central reaction in both classical and alternative complement pathways. After activation C3b can bind covalently, via its reactive thioester, to cell surface carbohydrates or immune aggregates.

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 phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
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	Actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Affinity-chromatography
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used:

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	WB 1:5000-1:10000 IHC 1:50-1:200 ICC/IF 1:50-1:200 IP 1:50 FC 1:50

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

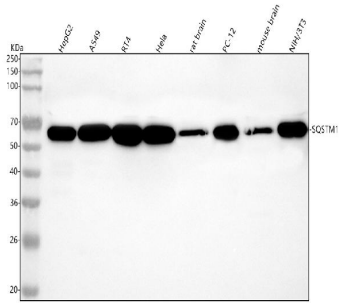

Figure 1. Western blot analysis of p62/SQSTM1 using anti-p62/SQSTM1 antibody (M00300).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human 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.

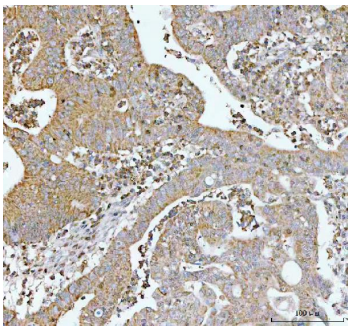

Figure 2. IHC analysis of p62/SQSTM1 using anti-p62/SQSTM1 antibody (M00300).
p62/SQSTM1 was detected in a paraffin-embedded section of human colorectal adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-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.

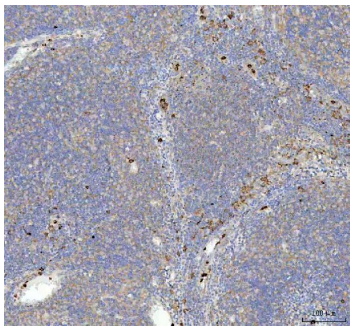

Figure 3. IHC analysis of p62/SQSTM1 using anti-p62/SQSTM1 antibody (M00300).
p62/SQSTM1 was detected in a paraffin-embedded section of human spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat 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

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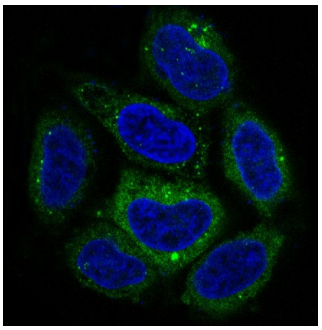
37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



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

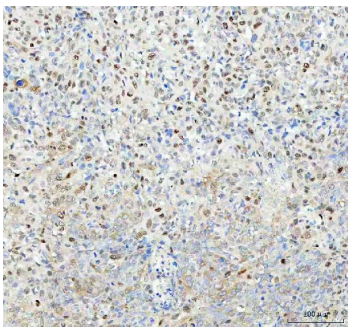
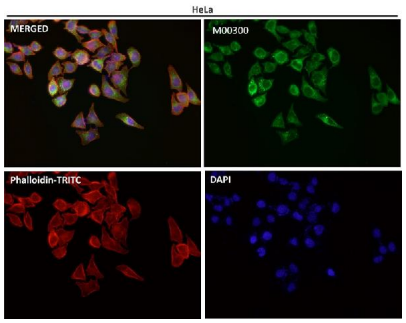


Figure 4. IHC analysis of p62/SQSTM1 using anti-p62/SQSTM1 antibody (M00300).
p62/SQSTM1 was detected in a paraffin-embedded section of human cervix squamous cell carcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was 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 using the Antibody at 1:50 dilution.

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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