Product Datasheet

p62/SQSTM1 Antibody - BSA Free NBP1-42821

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.



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NBP1-42821

p62/SQSTM1 Antibody - BSA Free

| Product Information | | |
|-----------------------------|---|--|
| Unit Size | 0.1 ml | |
| Concentration | 1 mg/ml | |
| Storage | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles. | |
| Clonality | Polyclonal | |
| Preservative | 0.1% Sodium Azide | |
| Isotype | IgG | |
| Purity | Immunogen affinity purified | |
| Buffer | PBS, 30% Glycerol | |
| Target Molecular Weight | 47 kDa | |
| Product Description | | |
| Host | Rabbit | |
| Gene ID | 8878 | |
| Gene Symbol | SQSTM1 | |
| Species | Human, Mouse, Rat | |
| Immunogen | A synthetic peptide made to an internal region of the human p62/SQSTM1 protein (within residues 350-400). [Swiss-Prot Q13501] | |
| Product Application Details | | |
| Applications | Western Blot, Immunocytochemistry/ Immunofluorescence | |

Images

Western Blot: p62/SQSTM1 Antibody [NBP1-42821] - HeLa cells were treated with (+) or without 50 uM (-) of Chloriquine (CQ) for 24 hours. Total cell lysates were prepared and separated on a 12% gel by SDS-PAGE. Protein was transferred to PVDF membrane and blocked in 5% non-fat milk. The membrane was then probed with 2 ug/ml anti-p62/SQSMT1 in 1% milk and detected with an anti-rabbit HRP secondary antibody using chemiluminescence. Note the upregulation of p62 (arrowhead) in response to chloroquine treatment and the blockage of autophagy.



Western Blot 0.5 ug/mL, Immunocytochemistry/ Immunofluorescence 1:50



Immunocytochemistry/Immunofluorescence: p62/SQSTM1 Antibody [NBP1-42821] - Confocal immunofluorescent analysis of HeLa cells using p62/SQSTM1 antibody (NBP1-42821, 1:5). An Alexa Fluor 488conjugated Goat to rabbit IgG was used as secondary antibody (green). Actin filaments were labeled with Alexa Fluor 568 phalloidin (red). DAPI was used to stain the cell nuclei (blue).



| Western Blot: p62/SQSTM1 Antibody [NBP1-42821] - Western Blot of the lysate from primary rat hepatocytes. Image from verified customer review. | MW, KDa 260 140 100 70 50 40 35 25 15 |
|--|--|
| Western Blot: p62/SQSTM1 Antibody [NBP1-42821] - Western Blot of the lysate from mice hepatocytes. Image from verified customer review. | MW, KDa 260 140 100 70 50 40 35 25 15 |
| Western Blot: p62/SQSTM1 Antibody [NBP1-42821] - Western Blot of the lysate of HepG2 cells. Image from verified customer review. | MW, KDa |



Publications

Yazdankhah M, Ghosh S, Liu H et al. Mitophagy in Astrocytes Is Required for the Health of Optic Nerve Cells 2023-10-20 [PMID: 37887340]

Liu X, Feng B, Vats A et al. Pharmacological clearance of misfolded rhodopsin for the treatment of RHO-associated retinitis pigmentosa The FASEB Journal 2020-08-01 [PMID: 32536017]

Li J, Ding R, Gao H et al. New spirobisnaphthalenes from an endolichenic fungus strain CGMCC 3.15192 and their anticancer effects through the P53-P21 pathway RSC Adv 2022-05-11 [PMID: 35540656]

Yazdankhah M, Ghosh S, Shang P, et al. BNIP3L-mediated mitophagy is required for mitochondrial remodeling during the differentiation of optic nerve oligodendrocytes Autophagy 2021-01-19 [PMID: 33404293] (WB, Rat)

Geng X, Wang F, Tian D et al. Cardiac glycosides inhibit cancer through Na/K-ATPase-dependent cell death induction Biochem. Pharmacol. 2020-09-22 [PMID: 32976831] (WB, Human)

Wang F, Mayca Pozo F, Tian D et al. Shikonin Inhibits Cancer Through P21 Upregulation and Apoptosis Induction Front Pharmacol 2020-06-09 [PMID: 32581812] (WB, Human)

Yazdankhah M, Shang P, Ghosh S et al. Modulating EGFR-MTORC1-autophagy as a potential therapy for persistent fetal vasculature (PFV) disease Autophagy 2019-09-01 [PMID: 31462148] (WB, Rat)

Shivapathasundram G, Wickremesekera A, Brasch H et al. SMCR8 negatively regulates AKT and MTORC1 signaling to modulate lysosome biogenesis and tissue homeostasis Autophagy 2019-05-01 [PMID: 30696333] (WB, Mouse)

Eason RJ, Bell KS, Marshall FA et al. The helminth product, ES-62 modulates dendritic cell responses by inducing the selective autophagolysosomal degradation of TLR-transducers, as exemplified by PKCdelta. Sci Rep. 2016-11-21 [PMID: 27869138] (WB, Mouse)



Procedures

Protocol specific for SQSTM1 Antibody (NBP1-42821)

p62/SQSTM1 Antibody:

Procedure Guide for NBP1-42821 - SQSTM1 Antibody Western Blot Protocol

1. Perform SDS-PAGE (4-12% MOPS) on samples to be analyzed, loading 40 ug of total protein per lane.

2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.

3. Rinse membrane with dH2O and then stain the blot using Ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations

and locations of molecular weight markers using a pencil.

4. Rinse the blot in TBS for approximately 5 minutes.

5. Block the membrane using 5% BSA in TBS + Tween, 1 hour at RT.

6. Rinse the membrane in dH2O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.

7. Dilute the rabbit anti-SQSTM1 primary antibody (NBP1-42821) in blocking buffer and incubate 1 hour at room temperature.

8. Rinse the membrane in dH2O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.

9. Apply the diluted rabbit-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.

10. Wash the blot in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each (this step can be repeated as required to reduce background).

11. Apply the detection reagent of choice in accordance with the manufacturers instructions (Pierce ECL). Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%, provided

it does not interfere with antibody-antigen binding.

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Products Related to NBP1-42821

| NB800-PC9 | HeLa Nuclear Cell Lysate |
|---------------|---|
| NBP1-42821PEP | p62/SQSTM1 Antibody Blocking Peptide |
| HAF008 | Goat anti-Rabbit IgG Secondary Antibody [HRP] |
| NB7160 | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891 | Rabbit IgG Isotype Control |

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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