

# 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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Updated 9/9/2025 v.20.1

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**NBP1-42821**

p62/SQSTM1 Antibody - BSA Free

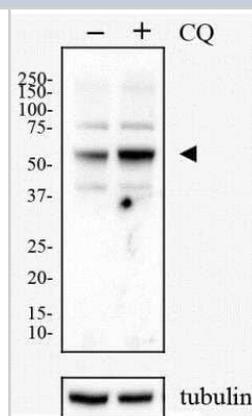
Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS, 30% Glycerol
Target Molecular Weight	47 kDa

Product Description	
Description	Novus Biologicals Rabbit p62/SQSTM1 Antibody - BSA Free (NBP1-42821) is a polyclonal antibody validated for use in WB and ICC/IF. Anti-p62/SQSTM1 Antibody: Cited in 10 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
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]

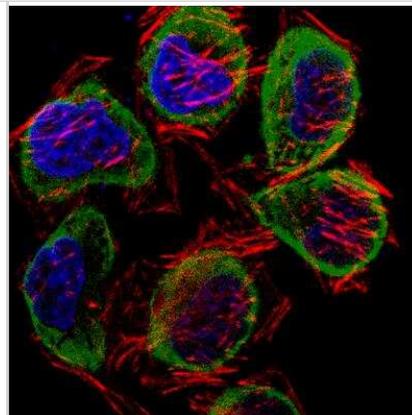
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot 0.5 ug/mL, Immunocytochemistry/ Immunofluorescence 1:50

**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.

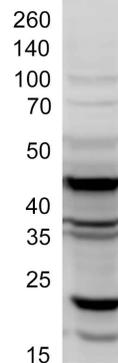


Immunocytochemistry/Immunofluorescence: p62/SQSTM1 Antibody [NBP1-42821] - Confocal immunofluorescent analysis of HeLa cells using p62/SQSTM1 antibody (NBP1-42821, 1:5). An Alexa Fluor 488-conjugated Goat to rabbit IgG was used as secondary antibody (green). Actin filaments were labeled with Alexa Fluor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



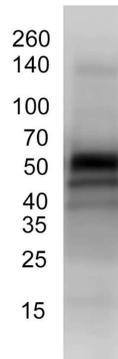
Western Blot: p62/SQSTM1 Antibody [NBP1-42821] - Western Blot of the lysate from primary rat hepatocytes. Image from verified customer review.

MW, KDa



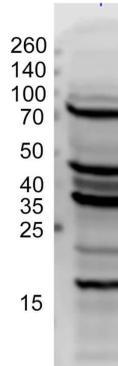
Western Blot: p62/SQSTM1 Antibody [NBP1-42821] - Western Blot of the lysate from mice hepatocytes. Image from verified customer review.

MW, KDa

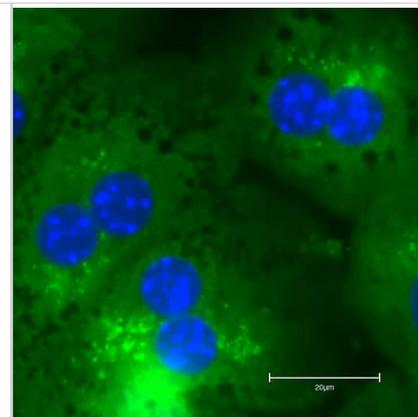


Western Blot: p62/SQSTM1 Antibody [NBP1-42821] - Western Blot of the lysate of HepG2 cells. Image from verified customer review.

MW, KDa



Immunocytochemistry/Immunofluorescence: Rabbit Polyclonal p62/SQSTM1 Antibody [NBP1-42821] - Mouse hepatocytes stained with p62/SQSTM1 Antibody. Image from a verified customer review.



## Publications

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] (Western Blot, Mouse)

Amanda JM, Taylor ED, Artem NP et al. Alcohol-induced Golgiphagy is triggered by the downregulation of Golgi GTPase RAB3D *Autophagy*. 2024-04-09 [PMID: 38591519]

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]

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 dH<sub>2</sub>O 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 dH<sub>2</sub>O 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 dH<sub>2</sub>O 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.





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP1-42821**

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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

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### **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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