

Product Datasheet

p62/SQSTM1 Antibody NBP1-49956

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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NBP1-49956

p62/SQSTM1 Antibody

Product Information	
Unit Size	0.1 ml
Concentration	0.2 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	TBS and 0.1% BSA
Target Molecular Weight	47.7 kDa

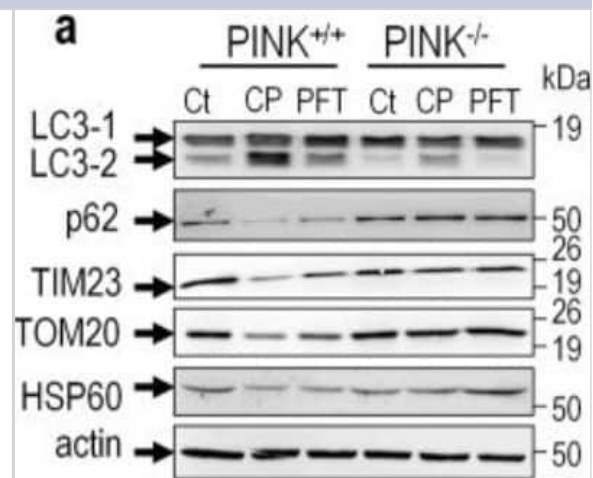
Product Description	
Description	Novus Biologicals Knockout (KO) Validated Rabbit p62/SQSTM1 Antibody (NBP1-49956) is a polyclonal antibody validated for use in IHC, WB and IP. Anti-p62/SQSTM1 Antibody: Cited in 17 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	8878
Gene Symbol	SQSTM1
Species	Human, Mouse
Immunogen	The immunogen for this product maps to a region between residue 425 and 440 of human p62/SQSTM1 using the numbering given in entry NP_003891.1 (GeneID 8878).

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry, Immunoprecipitation, Knockout Validated
Recommended Dilutions	Western Blot 1:2000-1:10000, Immunohistochemistry 1:100 - 1:500, Immunoprecipitation 2-5 ug/mg lysate, Immunohistochemistry-Paraffin 1:100-1:500, Knockout Validated Reactivity reported in (PMID: 31961433)
Application Notes	Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE tissue sections.

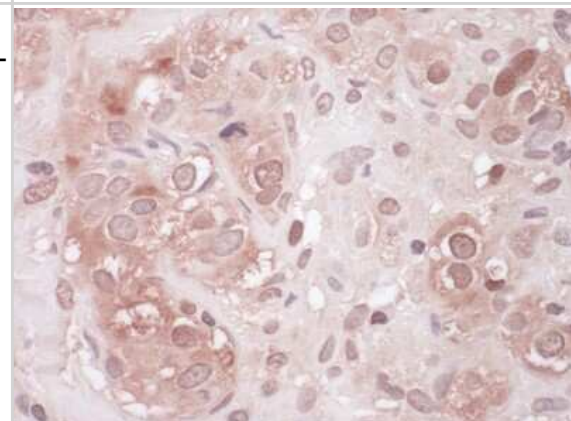


Images

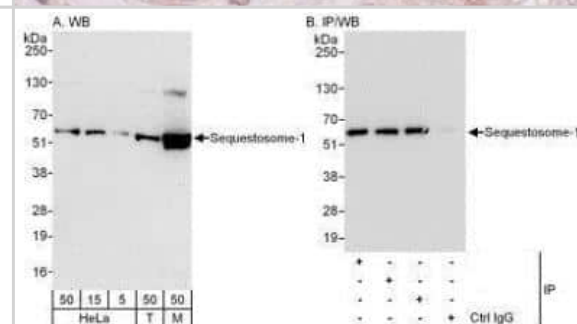
Western Blot: p62/SQSTM1 Antibody [NBP1-49956] - p53 repression of autophagy is PINK1-dependent. LC3-2/LC3-1 (a,b, N = 12), p62/SQSTM1 (a,c, N = 12), TIM23 (a,d, N = 12), TOM20 (a,e, N = 12) and HSP60 (a,f, N = 12) protein levels were analyzed in control (PINK+/+) or Pink1-deficient (PINK-/-) HAP cells treated with vehicle (Ct), pifithrin-alpha (PFT, 30 uM, 4 h) or CCCP (CP, 10 uM, 6 h) as described in the Methods. Bars represent the means +/- SEM of 4 independent experiments performed in triplicates and are expressed as percent of control HAP1 (HAP+/+, Ct) cells. Actin expression is provided as a representative gel loading control. Statistical analyses were performed with GraphPad Prism software by using unpaired Student's t-test. Significant differences are: ns not significant, *p < 0.05, ** p < 0.01 and ***p < 0.001. Image collected and cropped by CiteAb from the following publication (<https://www.nature.com/articles/s41418-017-0016-0>), licensed under a CC-BY license.



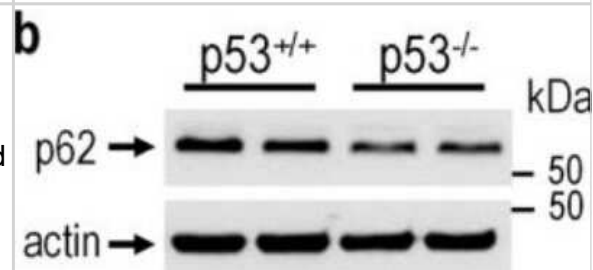
Immunohistochemistry-Paraffin: p62/SQSTM1 Antibody [NBP1-49956] - Section of human breast carcinoma. Antibody: Affinity purified rabbit anti-Sequestosome-1 used at a dilution of 1:200 (1ug/ml). Detection: Vector Laboratories ImmPACT NovaRED Peroxidase Substrate



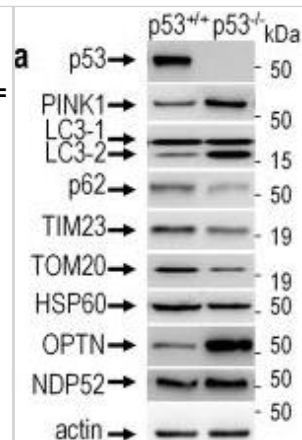
Western Blot: p62/SQSTM1 Antibody [NBP1-49956] - Detection of Human and Mouse Sequestosome-1 by Western Blot (h&m) and Immunoprecipitation (h). Samples: Whole cell lysate from HeLa (5, 15 and 50 mcg for WB; 1 mg for IP, 20% of IP loaded), 293T (T; 50 mcg), and mouse NIH3T3 (M; 50 mcg) cells. Antibodies: Affinity purified rabbit anti-Sequestosome-1 antibody used for WB at 0.04 mcg/ml (A) and 0.4 mcg/ml (B) and used for IP at 3 mcg/mg lysate. Sequestosome-1 was also immunoprecipitated by rabbit anti-Sequestosome-1 antibodies which recognize upstream epitopes. For blotting immunoprecipitated Sequestosome-1 was used. Detection: Chemiluminescence with exposure times of 30 seconds (A) and 3 seconds (B).



Western Blot: p62/SQSTM1 Antibody [NBP1-49956] - Evaluation of mitophagy control by p53 in mice brain. p62/SQSTM1 (N = 9) protein levels were analyzed in control (p53+/+) or TP53-deficient (p53-/-) knockout mice brains as described in the Methods. Bars represent the means +/- SEM of 3 independent experiments performed in triplicate and are expressed as percent of control (p53+/+) cells. Actin expression is provided as a representative gel loading control. Statistical analyses were performed with GraphPad Prism software by using unpaired Student's t-test. Significant differences are: ** p < 0.01, ***p < 0.001. Image collected and cropped by CiteAb from the following publication (<https://www.nature.com/articles/s41418-017-0016-0>), licensed under a CC-BY license.



TP53 knockout triggers a pro-mitophagic response. PINK1 (a,b, N = 8), LC3-2/LC3-1 (a,c, N = 8), p62 (a,d, N = 12), TIM23 (a,e, N = 10), TOM20 (a,f, N = 9), HSP60 (a,g, N = 16), optineurin (a,h, N = 9) & NDP52 (a,i, N = 8) protein levels were analyzed in control (p53+/+) or TP53-deficient (p53-/-) HAP1 cells as described in the Methods. Bars represent the means \pm SEM of 3-4 independent experiments performed in triplicate & are expressed as percent of control (p53+/+) cells. Actin expression is provided as a representative gel loading control in a. Statistical analyses were performed with GraphPad Prism software by using unpaired Student's t-test. Significant differences are: ** $p < 0.01$, *** $p < 0.001$ & **** $p < 0.0001$. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/29352272>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

McKinney JR, Seferovic MD, Major AM et al. Placental Autophagy and Viral Replication Co-localize in Human and Non-human Primate Placentae Following Zika Virus Infection: Implications for Therapeutic Interventions *Frontiers in Virology* 2021-09-17 [PMID: 37431450] (Western Blot, Immunohistochemistry-Paraffin, Mouse)

Szatmari-Toth M, Shaw A, Csomós I et al. Thermogenic Activation Downregulates High Mitophagy Rate in Human Masked and Mature Beige Adipocytes *International Journal of Molecular Sciences* 2020-09-10 [PMID: 32927882] (Western Blot, Immunohistochemistry-Paraffin, Mouse)

W El Manaa, E Duplan, T Goiran, I Lauritzen, L Vaillant B, S Lacas-Gerv, VA Morais, H You, L Qi, M Salazar, U Ozcan, M Chami, F Checler, C Alves da C Transcription- and phosphorylation-dependent control of a functional interplay between XBP1s and PINK1 governs mitophagy and potentially impacts Parkinson disease pathophysiology *Autophagy*, 2021-05-24;0(0):1-23. 2021-05-24 [PMID: 34030589] (Western Blot, Immunohistochemistry-Paraffin, Mouse)

Shaw A Thermogenic regulation of human abdominal and neck area derived adipocytes by mitophagy, irisin and BMP 7 Thesis 2022-01-01 (WB, Human)

Details:

Dilution used for WB 1:5000

Gautam S, Zhang L, Lee C et al. Molecular mechanism underlying impaired hepatic autophagy in glycogen storage disease type Ib *Human molecular genetics* 2022-08-12 [PMID: 35961004] (WB, Mouse)

VAmos, A;Shaw, A;Varga, K;Csomós, I;MocsAr, G;Balajthy, Z;Lanyi, C;Bacso, Z;Szatmari-Toth, M;KristOf, E; Mitophagy Mediates the Beige to White Transition of Human Primary Subcutaneous Adipocytes *Ex Vivo Pharmaceuticals* (Basel, Switzerland) [PMID: 35337160]

Sukseree S, Bakiri L, Irigoyen MP et al. Sequestosome 1/p62 enhances chronic skin inflammation *The Journal of allergy and clinical immunology* 2021-03-03 [PMID: 33675820] (WB, Mouse)

Thomas A, Samykutty A, Gomez-Gutierrez JG et al. Actively Targeted Nanodelivery of Echinomycin Induces Autophagy-Mediated Death in Chemoresistant Pancreatic Cancer *In Vivo Cancers* (Basel) 2020-08-14 [PMID: 32823919] (WB, Human)

Gautam S, Zhang L, Arnaoutova I et al. The signaling pathways implicated in impairment of hepatic autophagy in glycogen storage disease type Ia *Hum. Mol. Genet.* 2020-01-21 [PMID: 31961433] (WB, KO, Mouse)

Garcia Olmedo OA Valor de la ecografía e inmunohistoquímica en el diagnóstico del ganglio centinela en pacientes con melanoma Thesis

Cho JH, Lee YM, Bae SH, Chou JY Activation of tumor-promoting pathways implicated in hepatocellular adenoma/carcinoma, a long-term complication of glycogen storage disease type Ia *Biochem. Biophys. Res. Commun.* 2019-11-14 [PMID: 31735334] (IHC-P, WB, Mouse)

Chamoun-Emanuelli AM, Bryan LK, Cohen ND et al. NSAIDs disrupt intestinal homeostasis by suppressing macroautophagy in intestinal epithelial cells *Sci Rep* 2019-10-10 [PMID: 31601922] (IHC-P, Mouse)

More publications at <http://www.novusbio.com/NBP1-49956>





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Products Related to NBP1-49956

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
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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