

Product Datasheet

NDP52 Antibody - Azide and BSA Free H00010241-B01P

Unit Size: 0.05 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

www.novusbio.com



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Publications: 11

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Updated 9/9/2025 v.20.1

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H00010241-B01P

NDP52 Antibody - Azide and BSA Free

| Product Information | |
|---------------------|--|
| Unit Size | 0.05 mg |
| Concentration | Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services. |
| Storage | Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles. |
| Clonality | Polyclonal |
| Preservative | No Preservative |
| Isotype | IgG |
| Purity | Protein A purified |
| Buffer | PBS (pH 7.4) |

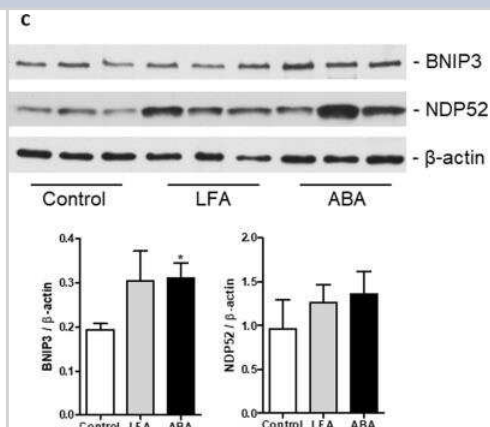
| Product Description | |
|-------------------------|---|
| Description | Novus Biologicals Mouse NDP52 Antibody - Azide and BSA Free (H00010241-B01P) is a polyclonal antibody validated for use in WB and ICC/IF. Anti-NDP52 Antibody: Cited in 11 publications. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| Host | Mouse |
| Gene ID | 10241 |
| Gene Symbol | CALCOCO2 |
| Species | Human, Mouse |
| Reactivity Notes | Mouse reactivity reported in scientific literature (PMID: 24667209) |
| Specificity/Sensitivity | CALCOCO2 - calcium binding and coiled-coil domain 2, |
| Immunogen | CALCOCO2 (NP_005822.1, 1 a.a. - 446 a.a.) full-length human protein. MEETIKDPPTSAVLLDHCHFSQVIFNSVEKFYIPGGDVTCHYTFTQHFIPRRKD WIGIFRVGWKTTREYYTFMWVTLPIDLNNKSAKQQEVQFKAYYLPKDDEYYQF CYVDEEDGVVRGASIPFQFRPENEEDILVTTTQGEVEIEQHKNELCKENQELKD SCISLQKQNSDMQAELQKKQEELETLSINKKLELVKEQKDYWETELLQLKE QNQKMSSENEKMGIRVDQLQAQLSTQEKEMEKLQVGGDQDKTEQLEQLKKEN DHLFLSLTEQRKDQKKLEQTVEQMKQNETTAMKKQQELMDENFDLSKRLESEN EIICNALQRQKERLEGENDLLKRENSRLLSYMGLDFNSLPYQVPTSDEGGARQ NPGLAYGNPYSGIQESSSPSPLSIKKCPICKADDICDHTLEQQQMQLCFNCPI CDKIFPATEKQIFEDHVFCHSL |
| Notes | This product is produced by and distributed for Abnova, a company based in Taiwan. |

| Product Application Details | |
|-----------------------------|---|
| Applications | Western Blot, Immunocytochemistry/ Immunofluorescence |
| Recommended Dilutions | Western Blot 1:500, Immunocytochemistry/ Immunofluorescence |
| Application Notes | Antibody reactive against Recombinant Protein with GST tag Western Blot and also on transfected lysate in western blot. GST tag alone is used as a negative control). Use in ICC/IF was reported in scientific literature (PMID: 31611642). |

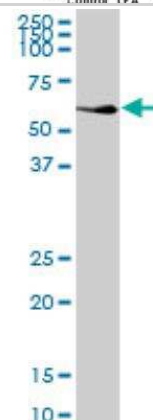


Images

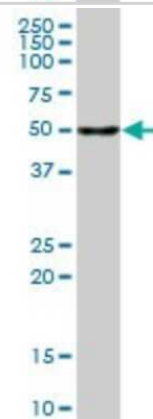
Western Blot: NDP52 Antibody [H00010241-B01P] - Hypothalamic autophagy at day 17. (c) Representative immunoblots (from 3 individuals/group) and expression profile (n = 6/group) of BNIP3 and NDP52 at d17 in the hypothalamus of Control mice (open bars) or mice with limitation of food access (LFA, grey bars) or activity-based anorexia (ABA, black bars). Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/29740148>) licensed under a CC-BY license.



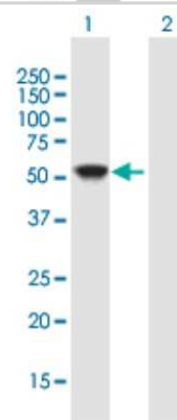
Western Blot: NDP52 Antibody [H00010241-B01P] - CALCOCO2 MaxPab polyclonal antibody. Western Blot analysis of CALCOCO2 expression in human pancreas.



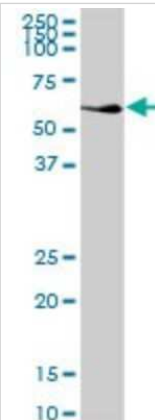
Western Blot: NDP52 Antibody [H00010241-B01P] - Analysis of CALCOCO2 expression in human liver.



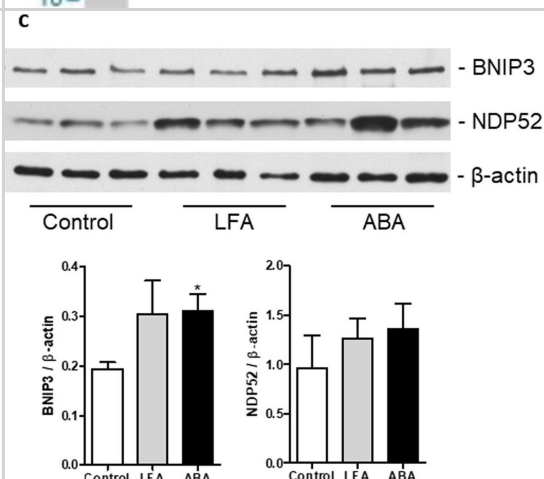
Western Blot: NDP52 Antibody [H00010241-B01P] - Analysis of CALCOCO2 expression in transfected 293T cell line by CALCOCO2 polyclonal antibody. Lane 1: CALCOCO2 transfected lysate (49.06 KDa). Lane 2: Non-transfected lysate.



Western Blot: NDP52 Antibody [H00010241-B01P] - Analysis of CALCOCO2 expression in human pancreas.



Western Blot: NDP52 Antibody [H00010241-B01P] - Hypothalamic autophagy at day 17. (a) Representative immunoblots (n = 1/group) & expression profile (n = 6/group) of LC3I, LC3II at d17 (Supplemental Fig. S8) & (b) representative immunoblots (n = 1/group) & expression profile (n = 6/group) of DNM1 at d17 in the hypothalamus of Control mice (open bars) or mice with limitation of food access (LFA, grey bars) or activity-based anorexia (ABA, black bars). (c) Representative immunoblots (from 3 individuals/group) & expression profile (n = 6/group) of BNIP3 & NDP52 at d17 in the hypothalamus of Control mice (open bars) or mice with limitation of food access (LFA, grey bars) or activity-based anorexia (ABA, black bars). *p < 0.05 vs Control. #p < 0.05 vs LFA. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/29740148>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

- Engström P, Burke TP, Tran CJ et al. Lysine methylation shields an intracellular pathogen from ubiquitylation and autophagy *Science Advances* 2021-06-25 [PMID: 34172444] (Western Blot, Mouse)
- Lee Y, Kim J, Kim MS et al. Coordinate regulation of the senescent state by selective autophagy *Developmental cell* 2021-04-27 [PMID: 33915088]
- Borgo GM, Burke TP, Tran CJ et al. A patatin-like phospholipase mediates *Rickettsia parkeri* escape from host membranes *Nature communications* 2022-06-27 [PMID: 35760786]
- Cara E, Wanda K, Keith B et al. Transbilayer Movement of Sphingomyelin Precedes Catastrophic Breakage of Enterobacteria-Containing Vacuoles. *Curr Biol.* 2020-06-26 [PMID: 32649908]
- Kibrom A, Yaritza D, Rosemary C et al. Inner mitochondrial membrane protein Prohibitin 1 mediates Nix-induced, Parkin-independent mitophagy. *Sci Rep.* 2023-01-02 [PMID: 36593241]
- Jo C, Gundemir S, Pritchard S et al. Nrf2 Reduces Levels of Phosphorylated Tau Protein by Inducing Autophagy Adaptor Protein NDP52 *Nat Commun.* 2014-03-25 [PMID: 24667209] (WB, Mouse)
- Engström P, Burke TP, Mitchell G et al. Evasion of autophagy mediated by *Rickettsia* surface protein OmpB is critical for virulence *Nat Microbiol* 2019-10-14 [PMID: 31611642] (ICC/IF, Human, Mouse)
- Ravenhill BJ, Boyle KB, von Muhlen N et al. The Cargo Receptor NDP52 Initiates Selective Autophagy by Recruiting the ULK Complex to Cytosol-Invasive Bacteria. *Mol Cell.* 2019-03-07 [PMID: 30853402]
- Pabon MA, Patino E, Bhatia D et al. Beclin-1 regulates cigarette smoke-induced kidney injury in a murine model of chronic obstructive pulmonary disease. *JCI Insight* 2018-09-20 [PMID: 30232271] (WB, Mouse)
- Nobis S, Goichon A, Achamrah N et al. Alterations of proteome, mitochondrial dynamic and autophagy in the hypothalamus during activity-based anorexia *Sci Rep* 2018-05-08 [PMID: 29740148] (WB, Mouse)
- Kim S, Lee D, Song JC et al. NDP52 associates with phosphorylated tau in brains of an Alzheimer disease mouse model. *Biochem Biophys Res Commun* 2014-11-07 [PMID: 25450380]



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Products Related to H00010241-B01P

| | |
|--------------------|---|
| HAF007 | Goat anti-Mouse IgG Secondary Antibody [HRP] |
| NB720-B | Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin] |
| NBP1-97019-5mg | Mouse IgG Isotype Control |
| H00010241-P01-10ug | Recombinant Human NDP52 GST (N-Term) Protein |

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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

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