

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.

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H00010241-B01P

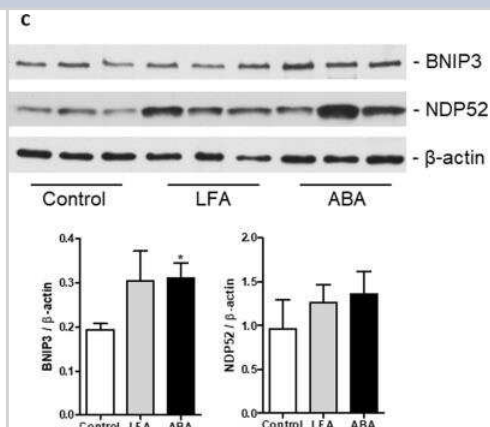
NDP52 Antibody - Azide and BSA Free

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	
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 CYVDEEDGVVRGASIPFQFRPENEEILVVTQGEVEEIEQHNLCKENQELKD SCISLQKQNSDMQAELQKKQEELETLSINKKLELVKEQKDYWETELLQLKE QNQKMSSENEKMGIRVDQLQAQLSTQEKEMEKLQVQGDQDKTEQLEQLKKEN DHLFLSLTEQRKDQKKLEQTVQMKQNETTAMKKQQELMDENFDLSKRLSEN EIIICNALQRQKERLEGENDLLKRENSRLLSYMGLDFNSLPYQVPTSDEGGARQ NPGLAYGNPYSGIQESSPSPLSIKKCPICKADDICDHTLEQQQMQLCFNCPI 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).

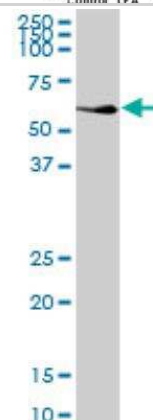


Images

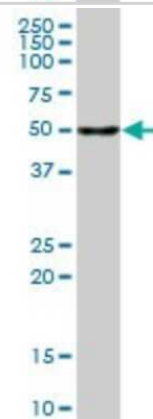
Western Blot: NDP52 Antibody [H00010241-B01P] - Hypothalamic autophagy at day 17. (c) Representative immunoblots (from 3 individuals/group) and expression profile (n = 6/group) of BNIP3 and NDP52 at d17 in the hypothalamus of Control mice (open bars) or mice with limitation of food access (LFA, grey 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.



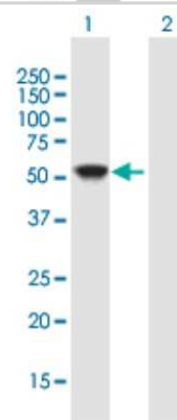
Western Blot: NDP52 Antibody [H00010241-B01P] - CALCOCO2 MaxPab polyclonal antibody. Western Blot analysis of CALCOCO2 expression in human pancreas.



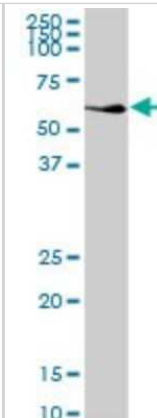
Western Blot: NDP52 Antibody [H00010241-B01P] - Analysis of CALCOCO2 expression in human liver.



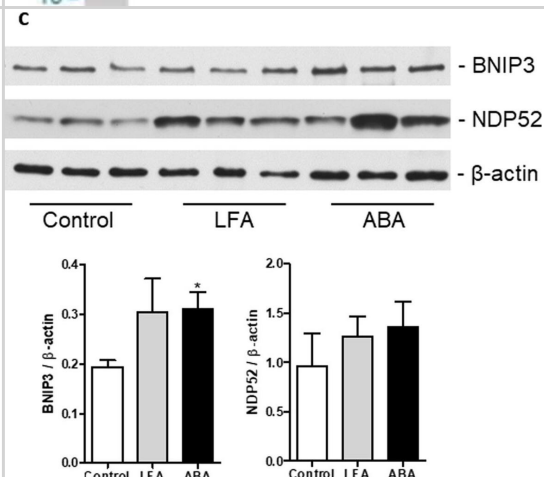
Western Blot: NDP52 Antibody [H00010241-B01P] - Analysis of CALCOCO2 expression in transfected 293T cell line by CALCOCO2 polyclonal antibody. Lane 1: CALCOCO2 transfected lysate (49.06 KDa). Lane 2: Non-transfected lysate.



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

- Lee Y, Kim J, Kim MS et al. Coordinate regulation of the senescent state by selective autophagy *Developmental cell* 2021-04-27 [PMID: 33915088]
- 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]
- 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 Muhlinen N et al. The Cargo Receptor NDP52 Initiates Selective Autophagy by Recruiting the ULK Complex to Cytosol-Invading 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.

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