

Product Datasheet

NOD1 Antibody NB100-56152

Unit Size: 0.05 ml

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

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NB100-56152**NOD1 Antibody****Product Information**

| | |
|----------------------|--|
| Unit Size | 0.05 ml |
| Concentration | This product is unpurified. The exact concentration of antibody is not quantifiable. |
| Storage | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles. |
| Clonality | Polyclonal |
| Preservative | 0.05% Sodium Azide |
| Isotype | IgG |
| Purity | Unpurified |
| Buffer | Whole antisera |

Product Description

| | |
|--------------------|--|
| Host | Rabbit |
| Gene ID | 10392 |
| Gene Symbol | NOD1 |
| Species | Human |
| Immunogen | A synthetic peptide corresponding to amino acids 494-512 (QLGFLRALPELGPGGDQQS) of human Nod1/CARD4 was used as immunogen; GenBank no. gi 5174617 ref NP_006083.1 . |

Product Application Details

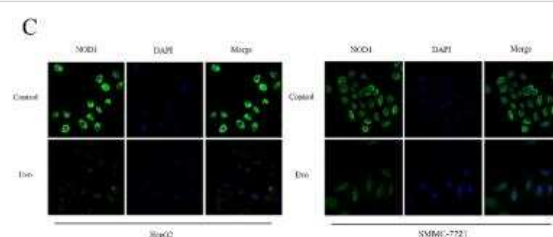
| | |
|------------------------------|--|
| Applications | Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation |
| Recommended Dilutions | Western Blot 1:1000-1:2000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation 1:50-1:200, Immunohistochemistry-Paraffin 1:1000-1:5000 |

Images

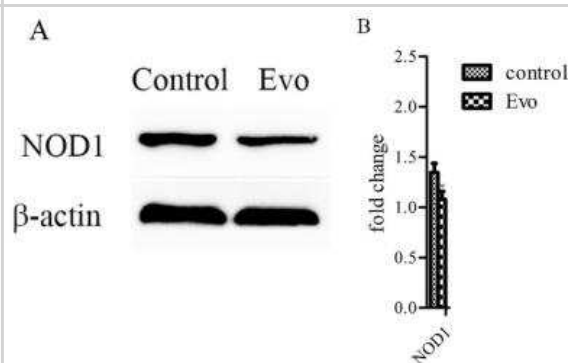
Western Blot: NOD1 Antibody [NB100-56152] - Evo-induced apoptosis of HCC cells occurred via the NOD1 pathway in vivo. (A,B) The mice treated with or without 10 mg/kg of Evo. Levels of proteins in the NOD1 pathway in tumor tissues were detected by the Western blot method. Image collected and cropped by Citeab from the following publication (Evodiamine Induces Apoptosis in SMMC-7721 and HepG2 Cells by Suppressing NOD1 Signal Pathway. Int J Mol Sci (2018)) licensed under a CC-BY license.



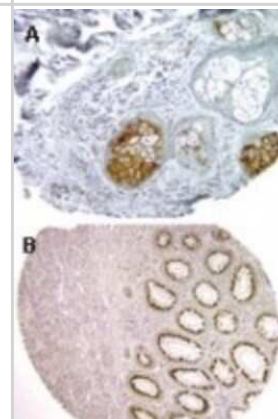
Immunocytochemistry/Immunofluorescence: NOD1 Antibody [NB100-56152] - Immunocytochemistry/Immunofluorescence: NOD1 Antibody [NB100-56152] - Representative images from the immunofluorescence method (x400). HepG2 and SMMC-7721 cells were incubated with or without Evo (0, 0.5, and 1 μ M) for 24 h to detect levels of NOD1 and p-P65. Values are means and standard errors of three separate experiments (* $p < 0.05$ and ** $p < 0.01$ versus control). Image collected and cropped by Citeab from the following publication (Evodiamine Induces Apoptosis in SMMC-7721 and HepG2 Cells by Suppressing NOD1 Signal Pathway. Int J Mol Sci (2018)) licensed under a CC-BY license.



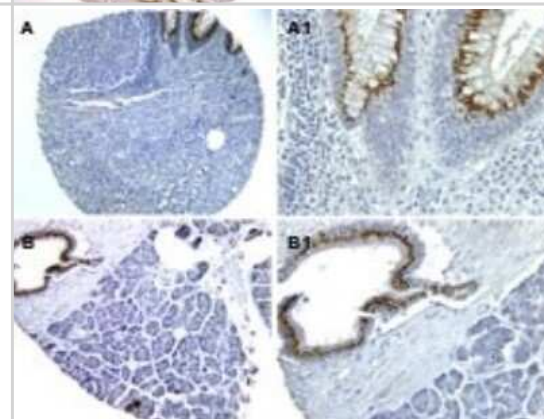
Western Blot: NOD1 Antibody [NB100-56152] - Evo-induced apoptosis of HCC cells occurred via the NOD1 pathway in vivo. (A,B) The mice treated with or without 10 mg/kg of Evo. Levels of proteins in the NOD1 pathway in tumor tissues were detected by the Western blot method. Image collected and cropped by Citeab from the following publication (Evodiamine Induces Apoptosis in SMMC-7721 and HepG2 Cells by Suppressing NOD1 Signal Pathway. Int J Mol Sci (2018)) licensed under a CC-BY license.



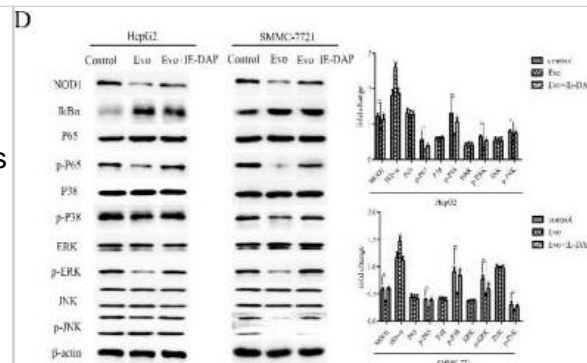
Immunohistochemistry-Paraffin: NOD1 Antibody [NB100-56152] - Section of human sebaceous gland (A) and colon (B) stained for NOD1 expression using NB100-56152 at 1:2000. Hematoxylin counterstain. 10X magnification.



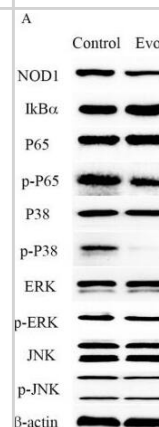
Immunohistochemistry-Paraffin: NOD1 Antibody [NB100-56152] - Sections of human colon (A, A1) and pancreas (B, B1) stained for NOD1 expression using a DAB chromogen and Hematoxylin counterstain. Magnification: A (20X), A1 (40X). B (10X), B1 (40X).



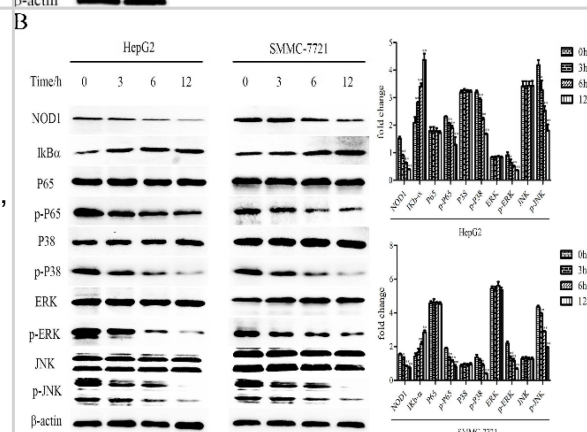
Western Blot: NOD1 Antibody [NB100-56152] - Evo induces apoptotic cell death of HepG2 & SMMC-7721 cells via the NOD1-mediated apoptotic pathway in vitro. HepG2 & SMMC-7721 cells were treated with 10 μ g/mL IE-DAP for 2 h before exposure to 1 μ M Evo. Apoptosis (A), cycle arrest (B), apoptosis-related protein levels (C) & the proteins' levels of NOD1 pathway (D) in treated & untreated cells were measured by 5-ethynyl-2'-deoxyuridine (EdU) ($\times 40$), cellular propidium iodide (PI) fluorescence & Western blot methods. The percentage of proliferating cells (EdU+) was quantitated using ImageJ software (National Institutes of Health, Bethesda, MD, USA). Values are means & standard errors of three separate experiments (* $p < 0.05$ & ** $p < 0.01$ versus control, # $p < 0.05$ & ## $p < 0.01$ versus Evo). Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30384473>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: NOD1 Antibody [NB100-56152] - Evo-induced apoptosis of HCC cells occurred via the NOD1 pathway in vivo. (A,B) The mice treated with or without 10 mg/kg of Evo. Levels of proteins in the NOD1 pathway in tumor tissues were detected by the Western blot method. (C) Representative images from the immunofluorescence method. Expression of NOD1 ($\times 400$) & p-P65 ($\times 200$) in tumor tissues was analyzed by the immunofluorescence method. Values are means & standard errors of five separate experiments (* $p < 0.05$ & ** $p < 0.01$ versus control). Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30384473>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: NOD1 Antibody [NB100-56152] - Evo decreases expression of NOD1 resulting in suppression of nuclear factor-κB (NF-κB) & mitogen-activated protein kinase (MAPK) activation in vitro. (A) Expression of NOD1 in normal hepatocyte HL-7702, HepG2, & SMMC-7721 cells were detected by qRT-PCR & Western blot assays. (B) HepG2 & SMMC-7721 cells were incubated with 1 μ M Evo for 0, 3, 6, & 12 h. The Western blot assay was performed to detect levels of proteins in the NOD1 pathway. (C) Representative images from the immunofluorescence method ($\times 400$). HepG2 & SMMC-7721 cells were incubated with or without Evo (0, 0.5, & 1 μ M) for 24 h to detect levels of NOD1 & p-P65. Values are means & standard errors of three separate experiments (* $p < 0.05$ & ** $p < 0.01$ versus control). Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30384473>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Guo XX, Li XP, Zhou P et al. Evodiamine Induces Apoptosis in SMMC-7721 and HepG2 Cells by Suppressing NOD1 Signal Pathway. *Int J Mol Sci.* 2018-10-31 [PMID: 30384473] (WB, Human)

King AE, Horne AW, Hombach-Klonisch S et al. Differential expression and regulation of nuclear oligomerization domain proteins NOD1 and NOD2 in human endometrium: a potential role in innate immune protection and menstruation. *Mol Hum Reprod.* 2009-05-01 [PMID: 19273470] (IHC-P)

Details:

IHC paraffin (female endometrial glandular epithelium, first trimester decidua), Figs. 2a, 2b, 2c, 2d.

Swaan PW, Bensman T, Bahadduri PM et al. Bacterial peptide recognition and immune activation facilitated by human peptide transporter PEPT2. *Am J Respir Cell Mol Biol.* 2008-11-01 [PMID: 18474668] (IP, Human)

Details:

IP (human lung cell lysates), Fig. 3C.





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 NB100-56152

| | |
|-------------|--|
| NB820-59205 | Human Colon Whole Tissue Lysate (Adult Whole Normal) |
| 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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