

Product Datasheet

NLRP3/NALP3 Antibody NBP2-12446

Unit Size: 0.2 ml

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

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NBP2-12446

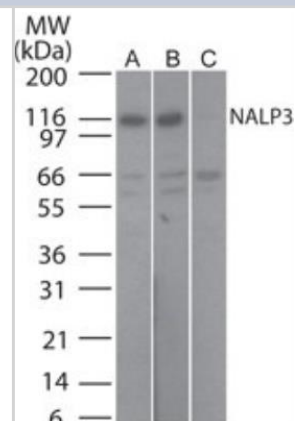
NLRP3/NALP3 Antibody

Product Information	
Unit Size	0.2 ml
Concentration	1.0 mg/ml
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	Protein A purified
Buffer	PBS
Target Molecular Weight	118 kDa
Product Description	
Host	Rabbit
Gene ID	114548
Gene Symbol	NLRP3
Species	Human, Mouse, Rat, Primate
Reactivity Notes	Reacts with New World Monkey. The amino acid sequence used as immunogen is 100% homologous in Human and Monkey and 86% homologous in Mouse and Rat.
Immunogen	This antibody was raised against a portion of amino acids 1-50 of human NALP3.
Product Application Details	
Applications	Western Blot, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 2 - 5 ug/ml, Immunohistochemistry 1:10 - 1:50, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin 1:10 - 1:50
Application Notes	Use in Immunohistochemistry-Paraffin reported in scientific literature (PMID 25437532), IHC (PMID 25602171), ICC (PMID 27867451).

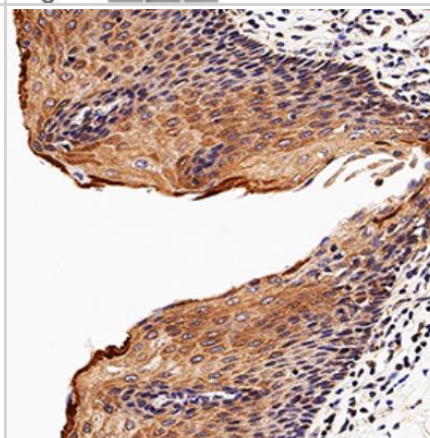


Images

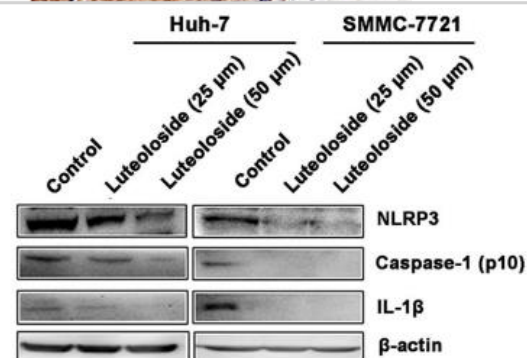
Western Blot: NLRP3/NALP3 Antibody [NBP2-12446] - Analysis of NALP3 using NALP3 antibody. Lane A) human NALP3 transfected cell lysate this antibody, B) mouse NALP3 transfected cell lysate this antibody, and C) HEK293 control lysate probed with NALP3 antibody at 3 ug/ml.



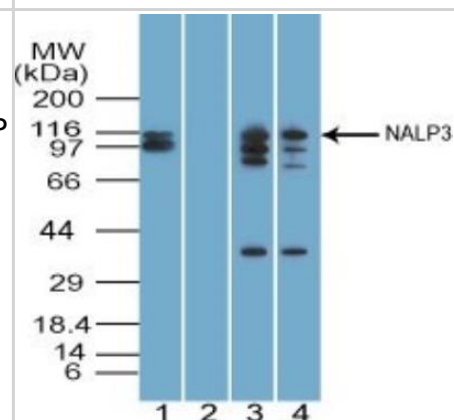
Immunohistochemistry-Paraffin: NLRP3/NALP3 Antibody [NBP2-12446] - IHC analysis of formalin fixed paraffin-embedded (FFPE) human esophagus using NLRP3/NALP3 antibody at 1:50 on a Bond Rx autostainer (Leica Biosystems). The assay involved 20 minutes of heat induced antigen retrieval (HIER) using 10mM sodium citrate buffer (pH 6.0) and endogenous peroxidase quenching with peroxide block. The sections were incubated with primary antibody for 30 minutes and Bond Polymer Refine Detection (Leica Biosystems) with DAB was used for signal development followed by counterstaining with hematoxylin. Whole slide scanning and capturing of representative images was performed using Aperio AT2 (Leica Biosystems). Cytoplasmic staining in the squamous epithelium was observed. Staining was performed by Histowiz.



Western Blot: NLRP3/NALP3 Antibody [NBP2-12446] - Analysis of NLRP3 in cells (Huh-7 and SMMC-7721) exposed luteoloside using anti-NLRP3 antibody. Image from verified customer review.



Western Blot: NLRP3/NALP3 Antibody [NBP2-12446] - Analysis of NALP3 using NALP3 antibody. Human testis lysate in the 1) absence, 2) presence of immunizing peptide, 3) mouse and 4) rat testis probed with NALP3 antibody at 5, 2 and 2 ug/ml respectively. Goat anti-rabbit Ig HRP secondary antibody and PicoTect ECL substrate solution were used for this test.



Publications

Yang Q, Fu C, Xiao J, Ye Z. Uric acid upregulates the adiponectin-adiponectin receptor 1 pathway in renal proximal tubule epithelial cells. *Molecular Medicine Reports* 2017 Dec 19 [PMID: 29359786] (Rat)

Szpigiel A, Hainault I, Carlier A et al. Lipid environment induces ER stress, TXNIP expression and inflammation in immune cells of individuals with type 2 diabetes. *Diabetologia*. 2017 Oct 07 [PMID: 28988346] (Human)

Wang Y, Yu B, Wang L et al. Pioglitazone ameliorates glomerular NLRP3 inflammasome activation in apolipoprotein E knockout mice with diabetes mellitus *PLoS ONE* 2017 Jul 14 [PMID: 28708885] (WB, IHC-P, Mouse)

Lampropoulou V, Sergushichev A, Bambouskova M et al. Itaconate Links Inhibition of Succinate Dehydrogenase with Macrophage Metabolic Remodeling and Regulation of Inflammation *Cell Metab.* 2016 Jul 12 [PMID: 27374498] (WB, Mouse)

Li M, Li H, Fang F et al. Astragaloside IV attenuates cognitive impairments induced by transient cerebral ischemia and reperfusion in mice via anti-inflammatory mechanisms. *Neurosci Lett* 2017 Feb 03 [PMID: 28011393] (Mouse)

Chen W, Wang J, Luo Y et al. Ginsenoside Rb1 and compound K improve insulin signaling and inhibit ER stress-associated NLRP3 inflammasome activation in adipose tissue. *J Ginseng Res* 2016 Oct [PMID: 27746687]

Kim SK, Joe Y, Chen Y et al. Carbon monoxide decreases interleukin-1B levels in the lung through the induction of pyrin. *Cell. Mol. Immunol.* Apr 1 2017 12:00AM [PMID: 26435068] (WB, Human)

Xu X, Chen Y, Song J et al. Mangiferin suppresses endoplasmic reticulum stress in perivascular adipose tissue and prevents insulin resistance in the endothelium. *Eur J Nutr.* Mar 27 2017 12:00AM [PMID: 28349253] (WB)

Yin J, Zhao F, Chojnacki JE et al. NLRP3 Inflammasome Inhibitor Ameliorates Amyloid Pathology in a Mouse Model of Alzheimer's Disease. *Mol. Neurobiol.* Mar 2 2017 12:00AM [PMID: 28255908] (Mouse)

Beckerman P, Bi-Karchin J, Park AS et al. Transgenic expression of human APOL1 risk variants in podocytes induces kidney disease in mice. *Nat. Med.* 2017 Feb 20 [PMID: 28218918]

Li Y, Zheng JY, Liu JQ et al. Succinate/NLRP3 Inflammasome Induces Synovial Fibroblast Activation: Therapeutical Effects of Clematichinenoside AR on Arthritis. *Front Immunol.* Dec 22 2016 12:00AM [PMID: 28003810] (IHC, Rat)

Yeh WJ, Yang HY, Pai MH et al. Long-term administration of advanced glycation end product stimulates the activation of NLRP3 inflammasome and sparking the development of renal injury. *The Journal of Nutritional Biochemistry* Oct 10 2016 12:00AM [PMID: 27816762] (WB, IHC, Mouse)

More publications at <http://www.novusbio.com/NBP2-12446>



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Products Related to NBP2-12446

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00114548-P01-2ug	Recombinant Human NLRP3/NALP3 Protein

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