

Product Datasheet

NLRP3/NALP3 Antibody (Nalpy3-b) - BSA Free NBP1-97601

Unit Size: 0.05 mg

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

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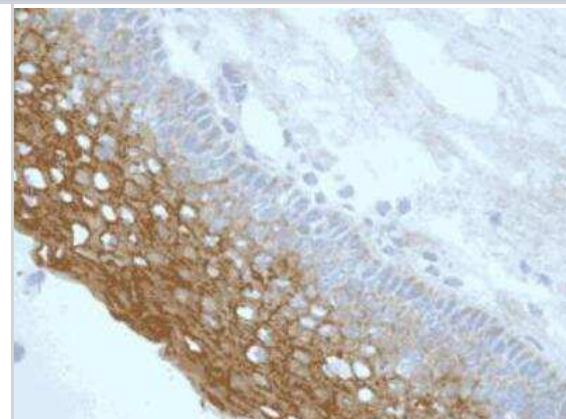
NBP1-97601**NLRP3/NALP3 Antibody (Nalpy3-b) - BSA Free**

Product Information	
Unit Size	0.05 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	Nalpy3-b
Preservative	0.02% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS
Product Description	
Host	Mouse
Gene ID	114548
Gene Symbol	NLRP3
Species	Human
Specificity/Sensitivity	Recognizes human NLRP3/NALP3.
Immunogen	Recombinant human NLRP3/NALP3 Antibody (Nalpy3-b) (NACHT-, LRR- and PYD-containing protein 3) (pyrin domain).
Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000, Immunohistochemistry 1:10-1:500, Immunoprecipitation 1:50, Immunohistochemistry-Paraffin 1:10 - 1:500, Immunohistochemistry-Frozen 1:10-1:500

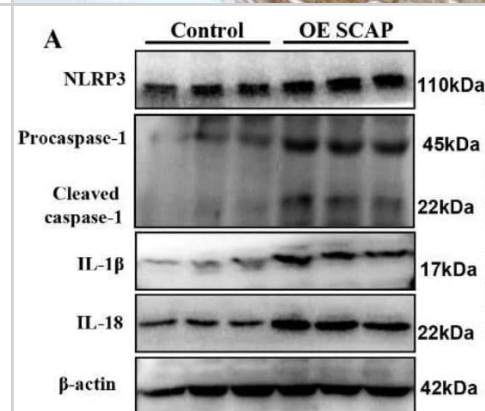


Images

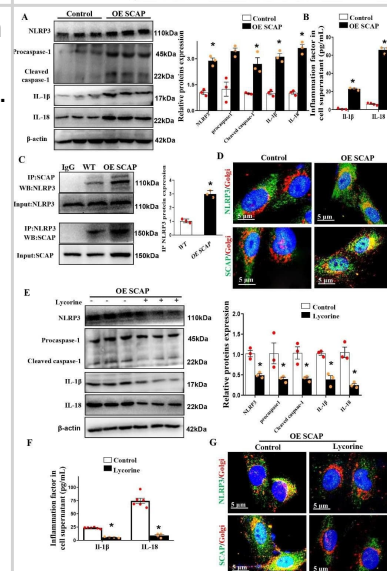
Immunohistochemistry-Frozen: NLRP3/NALP3 Antibody (Nalpy3-b) [NBP1-97601] - Staining of endogenous NLRP3/NALP3 in epithelial layer of human tonsil (frozen section) using NLRP3/NALP3 (human), mAb (Nalpy3-b). Method: 5uM frozen section of tissue are dried and fixed with acetone. Tissue is washed with PBS and incubated with NLRP3/NALP3 (human), mAb (Nalpy3-b).



Western Blot: NLRP3/NALP3 Antibody (Nalpy3-b) [NBP1-97601] - Sterol-resistant SCAP overexpression induces the activation of NLRP3/NALP3 (NBP1-97601) inflammasomes in VSMCs. Representative immunoblots for NLRP3/NALP3, Procaspase-1, cleaved caspase-1, IL-1 beta, and IL-18 in SCAP-overexpressing VSMCs. Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/34094640/>) licensed under a CC-BY license.



SPT6 Depletion Causes H3K36me3 Redistribution(A) Western blots with indicated antibodies 60 hr post-siSPT6 transfection (versus siLuc nonspecific control). EXOSC3 and H3 profiles shown as loading controls. (B) Meta-analysis of reads density (FPKM) for ratio of mNuc-seq/H3K36me3 with H3 at TSS of divergent PROMPT-pre-mRNA and enhancer RNA (eRNA) following SPT6 depletion. All subsequent transcription images employing siSPT6 versus siLuc are shown in red and blue, respectively.(C) Scatterplots of H3K36me3/H3 on pre-mRNA (0 to +3 kb), PROMPT (-3 kb to 0), and eRNA (-3 kb to +3 kb) regions in siLuc versus siSPT6. The percentage of upregulated regions by SPT6 depletion are indicated.(D) Boxplots of mNuc-seq/H3K36me3 ratio across pre-mRNA gene bodies, PROMPTs (3 kb from TSS), and eRNA (2 kb from center) and across lincRNA gene bodies.(E) Model of redistributed H3K36me3 marks caused by SPT6 depletion. See also Figure S2. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/30449723/>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Ivarsson J, Ferrara F, Vallese A et al. Comparison of Pollutant Effects on Cutaneous Inflammasomes Activation International Journal of Molecular Sciences 2023-11-23 [PMID: 38068996] (IHC, Human)

Li D, Liu M, Li Z et al. Sterol-resistant SCAP Overexpression in Vascular Smooth Muscle Cells Accelerates Atherosclerosis by Increasing Local Vascular Inflammation through Activation of the NLRP3 Inflammasome in Mice Aging and disease 2021-06-01 [PMID: 34094640] (WB)

Sun C, Diao Q, Lu J et al. Purple sweet potato color attenuated NLRP3 inflammasome by inducing autophagy to delay endothelial senescence J. Cell. Physiol. 2018-12-26 [PMID: 30585631] (WB, Human)

MT Shio et al. Malarial hemozoin activates the NLRP3 inflammasome through Lyn and Syk kinases. PLoS Pathog. 5, e1000559. 2009-01-01 [PMID: 19696895]

JA Kummer et al. Inflammasome components NALP 1 and 3 show distinct but separate expression profiles in human tissues suggesting a site-specific role in the inflammatory response. J. Histochem. Cytochem. 55, 443. 2007-01-01 [PMID: 17164409]

L Agostini et al. NALP3 forms an IL-1beta-processing inflammasome with increased activity in Muckle-Wells autoinflammatory disorder. Immunity 20, 319. 2004-01-01 [PMID: 15030775]





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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
H00114548-P01-2ug	Recombinant Human NLRP3/NALP3 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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