

# Product Datasheet

## NALP12 Antibody - BSA Free NBP1-76293

Unit Size: 0.1 mg

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

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### Publications: 1

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**NBP1-76293**

NALP12 Antibody - BSA Free

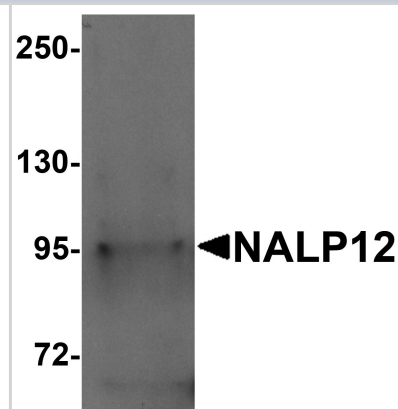
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Peptide affinity purified
Buffer	PBS

Product Description	
Host	Rabbit
Gene ID	91662
Gene Symbol	NLRP12
Species	Human, Mouse, Rat, Virus
Reactivity Notes	Viral reactivity reported in scientific literature (PMID: 31367214).
Immunogen	Antibody was raised against an 18 amino acid synthetic peptide near the amino terminus of human NALP12. The immunogen is located within amino acids 110 - 160 of NALP12. Amino Acid Squence: TPRKDPQETYRDYVRRKF

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1 ug/ml, ELISA 1:100-1:2000, Immunohistochemistry 5 ug/mL, Immunocytochemistry/ Immunofluorescence 20 ug/mL, Immunohistochemistry-Paraffin 5 ug/mL

**Images**

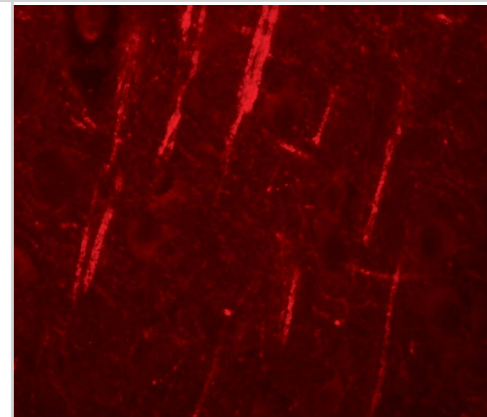
Western Blot: NALP12 Antibody - BSA Free [NBP1-76293] - Western blot analysis of NALP12 in human brain tissue lysate with NALP12 antibody at 1 u/mL.



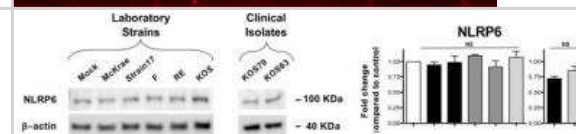
Immunohistochemistry-Paraffin: NALP12 Antibody [NBP1-76293] - Human brain tissue. Dilution: 5 ug/mL



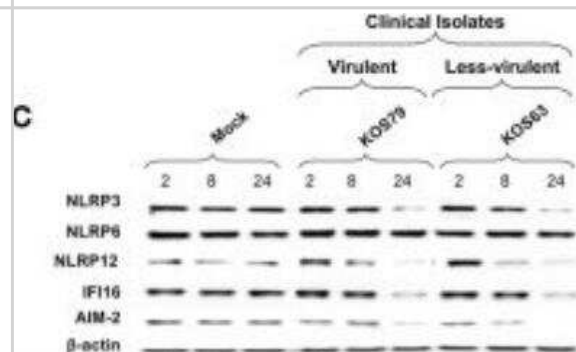
Immunocytochemistry/ Immunofluorescence: NALP12 Antibody - BSA Free [NBP1-76293] - Immunofluorescence of NALP12 in human brain tissue with NALP12 antibody at 20 u/mL.



Western Blot: NALP12 Antibody [NBP1-76293] - B6 mice (n = 6) were infected ocularly with  $2.5 \times 10^5$  pfu/eye of HSV-1 laboratory strains McKrae, 17, F, RE or KOS or with clinical isolates KOS79 and KOS63 (mock-infected mice (n = 6) used as controls). 48 hrs later, animals were euthanized & corneas were excised & homogenized in lysis buffer, and WB was performed for NLRP3, NLRP6, NLRP12, IFI16/p204, & AIM2 (beta-actin used as a control). Three WB performed using different corneal lysates harvested from three sets of corneas from 2 mice (4 corneas/lysate). Graphs (mean plus SD) show fold change in expression of NLRP3, NLRP6, NLRP12, IFI16/p204, and AIM2 at 48 hrs post-infection compared to controls, and normalized to beta-actin. Representative densitometric analysis is shown compared to control. Image collected and cropped by CiteAb from the following publication (<https://www.frontiersin.org/articles/10.3389/fimmu.2019.01631/full>), licensed under a CC-BY license.

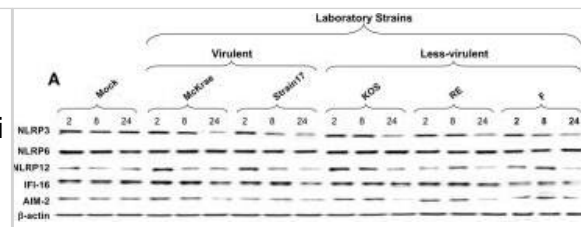


Western Blot: NALP12 Antibody [NBP1-76293] - Expression level of NLRP3, NLRP6, NLRP12, IFI16 and AIM2 inflammasomes in human primary corneal epithelial cells infected with virulent and less-virulent strains of HSV-1. Human primary corneal epithelial cells (hTCEpi cell line) were infected in vitro with clinical isolates KOS79 and KOS63 at MOI of 1. Two, 8 and 24 h post-infection, hTCEpi cells were harvested and immunoblots of whole cell lysates were performed for expression of NLRP3, NLRP6, NLRP12, IFI16, and AIM2 inflammasomes. Corresponding b-actin was used as a control. Image collected and cropped by CiteAb from the following publication ([frontiersin.org/article/10.3389/fimmu.2019.01631/full](https://www.frontiersin.org/article/10.3389/fimmu.2019.01631/full)), licensed under a CC-BY license.

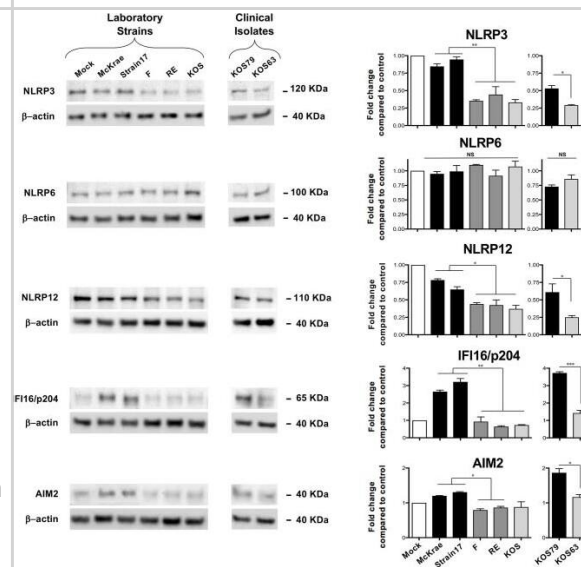


Western Blot: NALP12 Antibody - BSA Free [NBP1-76293] - Expression level of NLRP3, NLRP6, NLRP12, IFI16 & AIM2 inflammasomes in human primary corneal epithelial cells infected with virulent & less-virulent strains of HSV-1. Human primary corneal epithelial cells (hTCEpi cell line) were infected in vitro with HSV-1 laboratory strains McKrae, 17, F, RE or KOS (A,B) or with clinical isolates KOS79 & KOS63 (C,D) at MOI of 1. Two, 8 & 24 h post-infection, hTCEpi cells were harvested & immunoblots of whole cell lysates were performed for expression of NLRP3, NLRP6, NLRP12, IFI16, & AIM2 inflammasomes.

Corresponding  $\beta$ -actin was used as a control. (B,D) Graphs show the kinetics of fold changes in NLRP3, NLRP6, NLRP12, IFI16, & AIM2 inflammasomes expression at 2, 8, & 24 h post-infection with virulent/less-virulent strains of HSV-1 compared to the control & normalized to  $\beta$ -actin. Results are representative of three experiments. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31367214>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: NALP12 Antibody - BSA Free [NBP1-76293] - Expression levels of NLRP3, NLRP6, NLRP12, IFI16/p204, & AIM2 inflammasomes in mouse corneas following infection with virulent & less-virulent strains of HSV-1. B6 mice (n = 6) were infected ocularly with  $2.5 \times 10^5$  pfu/eye of HSV-1 laboratory strains McKrae, 17, F, RE or KOS or with clinical isolates KOS79 & KOS63. Mock-infected mice (n = 6) were used as controls. Forty-eight hours post-infection animals were euthanized the corneas were excised & homogenized in lysis buffer, & western blot was performed for expression of NLRP3, NLRP6, NLRP12, IFI16/p204, & AIM2. Corresponding  $\beta$ -actin was used as a control. Three western blot were performed using three different corneal lysates harvested from three sets of corneas pooled from 2 infected mice (i.e., 4 corneas per lysate). Results are representative of those three independent experiments. Graphs (mean plus SD) show fold change in expression of NLRP3, NLRP6, NLRP12, IFI16/p204, & AIM2 at 48 h post-infection with virulent/less-virulent strains of HSV-1 compared to the control & normalized to  $\beta$ -actin. Representative densitometric analysis is shown compared to control. \*P < 0.05; \*\*P < 0.01; \*\*\*P < 0.001 using Student's t test. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31367214>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Coulon PG, Dhanushkodi N, Prakash S et al. NLRP3, NLRP12, and IFI16 Inflammasomes Induction and Caspase-1 Activation Triggered by Virulent HSV-1 Strains Are Associated With Severe Corneal Inflammatory Herpetic Disease *Front Immunol* 2019-07-16 [PMID: 31367214] (WB, Viral)



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### **Products Related to NBP1-76293**

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NBP1-76293PEP	NALP12 Antibody Blocking Peptide
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **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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