

# 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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**NBP1-76293**

NALP12 Antibody - BSA Free

**Product Information**

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

**Product Description**

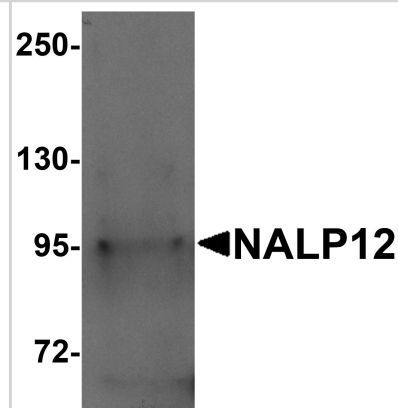
<b>Description</b>	Novus Biologicals Rabbit NALP12 Antibody - BSA Free (NBP1-76293) is a polyclonal antibody validated for use in IHC, WB, ELISA and ICC/IF. Anti-NALP12 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	91662
<b>Gene Symbol</b>	NLRP12
<b>Species</b>	Human, Mouse, Rat, Virus
<b>Reactivity Notes</b>	Viral reactivity reported in scientific literature (PMID: 31367214).
<b>Immunogen</b>	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 Sequence: TPRKDPQETYRDYVRRKF

**Product Application Details**

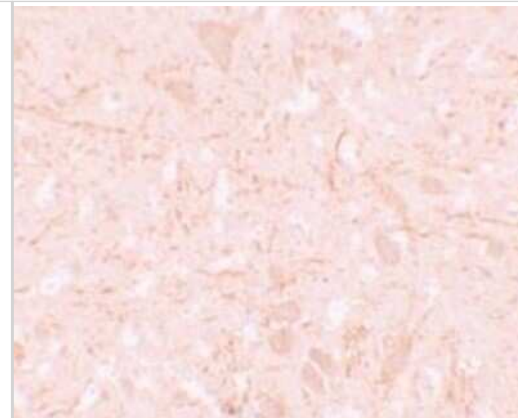
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 1 ug/ml, ELISA 1:100-1:2000, Immunohistochemistry 5 ug/mL, Immunocytochemistry/ Immunofluorescence 20 ug/mL, Immunohistochemistry-Paraffin 5 ug/mL

**Images**

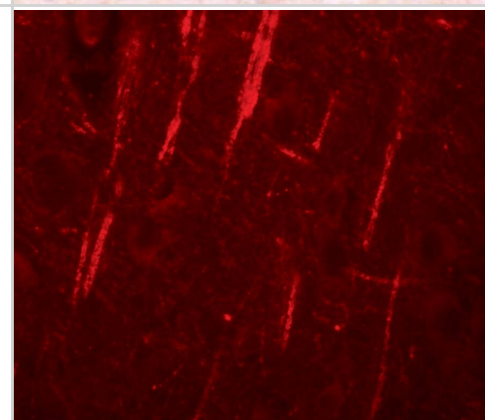
Western Blot: NALP12 Antibody - BSA Free [NBP1-76293] - Western blot analysis of NALP12 in human brain tissue lysate with NALP12 antibody at 1 u/mL.



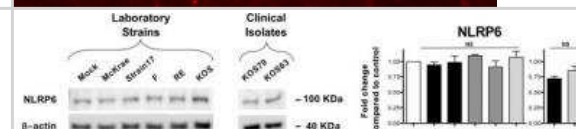
Immunohistochemistry-Paraffin: NALP12 Antibody [NBP1-76293] - Human brain tissue. Dilution: 5 ug/mL



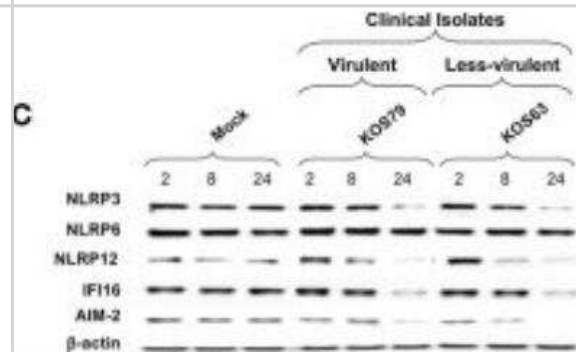
Immunocytochemistry/ Immunofluorescence: NALP12 Antibody - BSA Free [NBP1-76293] - Immunofluorescence of NALP12 in human brain tissue with NALP12 antibody at 20 u/mL.



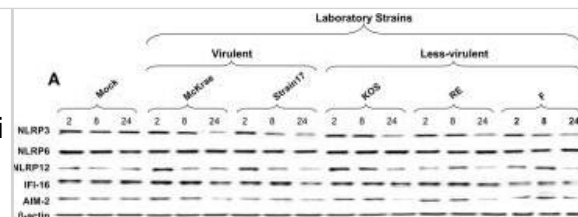
Western Blot: NALP12 Antibody [NBP1-76293] - B6 mice (n = 6) were infected ocularly with  $2.5 \times 10^5$  pfu/eye of HSV-1 laboratory strains McKrae, 17, F, RE or KOS or with clinical isolates KOS79 and KOS63 (mock-infected mice (n = 6) used as controls). 48 hrs later, animals were euthanized & corneas 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.



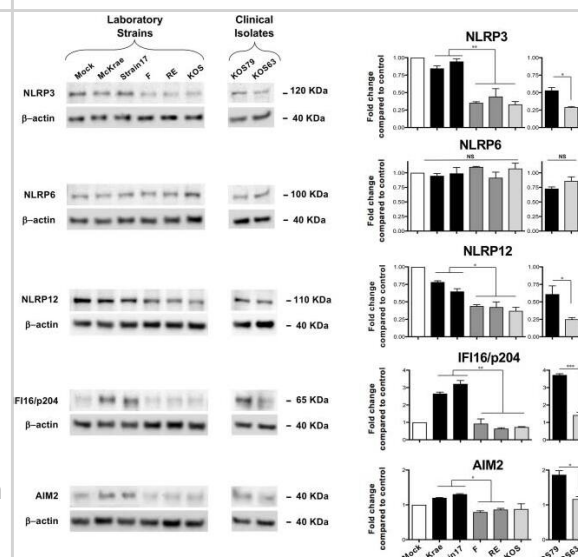
Western Blot: NALP12 Antibody [NBP1-76293] - Expression level of NLRP3, NLRP6, NLRP12, IFI16 and AIM2 inflammasomes in human primary corneal epithelial cells infected with virulent and less-virulent strains of HSV-1. Human primary corneal epithelial cells (hTCEpi cell line) were infected in vitro with 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/articles/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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