

# Product Datasheet

## Caspase-11 Antibody (17D9) - Azide and BSA Free NBP2-80612

Unit Size: 0.1 ml

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

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Updated 8/21/2023 v.20.1

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**NBP2-80612**

Caspase-11 Antibody (17D9) - Azide and BSA Free

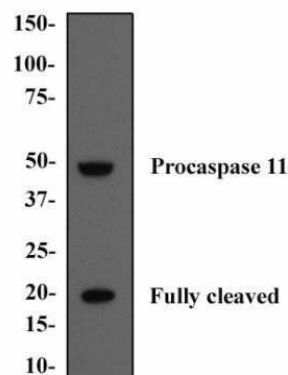
Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	17D9
Preservative	No Preservative
Isotype	IgG2a
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	60 kDa

Product Description	
Host	Rat
Gene ID	12363
Gene Symbol	Casp4
Species	Human, Mouse, Rat, Bovine
Immunogen	A recombinant p30 subunit of mouse Caspase 11. [UniProt# P70343]

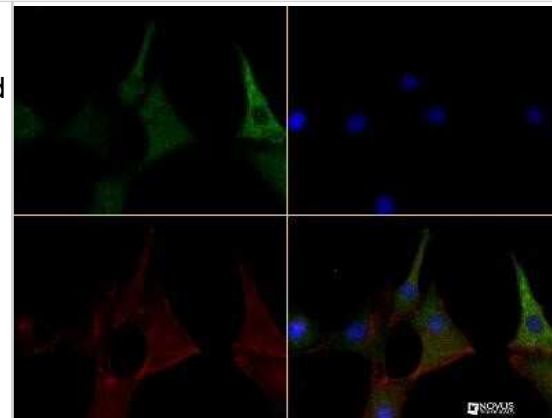
Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry, Immunoblotting, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, Microarray, CyTOF-ready, Knockdown Validated, Knockout Validated
Recommended Dilutions	Western Blot 5 ug/ml, Flow Cytometry reported in scientific literature (PMID 27708283), ELISA, Immunohistochemistry 1:10-1:500, Immunocytochemistry/Immunofluorescence 1:100, Immunoprecipitation reported in scientific literature (PMID 10791975), Immunohistochemistry-Paraffin 1:100, Immunohistochemistry-Frozen 1:10-1:500, Immunoblotting reported in scientific literature (PMID 28345580), Microarray, CyTOF-ready, Knockout Validated, Knockdown Validated

**Images**

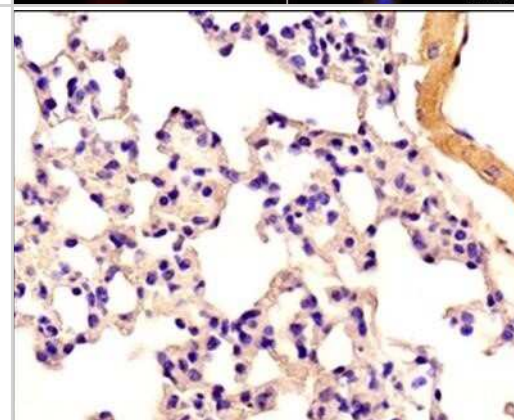
Western Blot: Caspase-11 Antibody (17D9) - Azide and BSA Free [NBP2-80612] - Mouse liver extract was separated on a 4-15% gel and transferred to PVDF membrane. The membrane was probed with anti-caspase 11 antibody and detected with an anti-mouse HRP secondary antibody. Both procaspase 11 and fully cleaved caspase 11 are detected. Image from the standard format of this antibody.



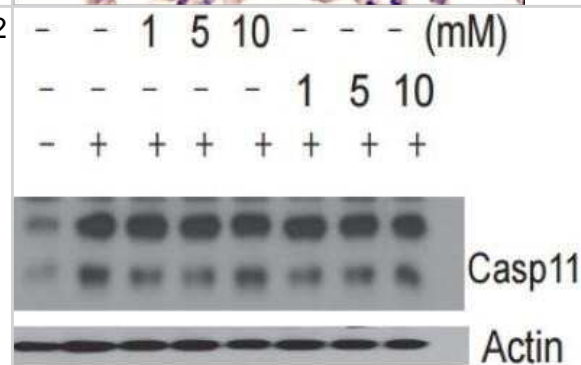
**Immunocytochemistry/Immunofluorescence: Caspase-11 Antibody (17D9) - Azide and BSA Free [NBP2-80612]** - Caspase 11 antibody was tested in NIH-3T3 cells at a 1:100 dilution using a Dylight 488 conjugated secondary antibody (Green). Actin (Red) and DNA (Blue) were counterstained using Phalloidin 568 and DAPI. Image from the standard format of this antibody.



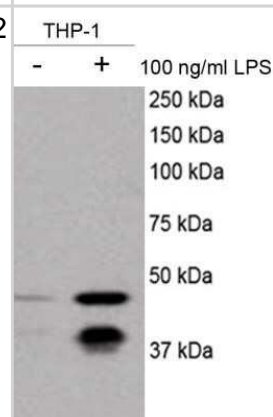
**Immunohistochemistry: Caspase-11 Antibody (17D9) - Azide and BSA Free [NBP2-80612]** - IHC-P analysis of a formalin fixed paraffin embedded tissue section of mouse lung using Caspase 11 antibody (clone 17D9) at 1:100 dilution. The antibody generated cytoplasmic signal with more intense staining in the bronchiolar epithelium while the stainin



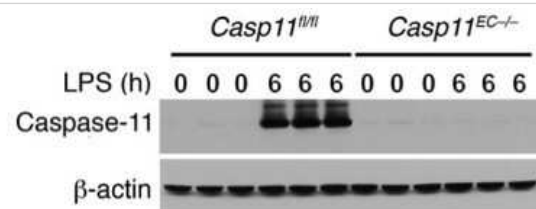
**Western Blot: Caspase-11 Antibody (17D9) - Azide and BSA Free [NBP2-80612]** - analysis of Caspase 11 in LPS stimulated bone marrow derived macrophages using anti-Caspase 11 antibody. Image from verified customer review. Image from the standard format of this antibody.



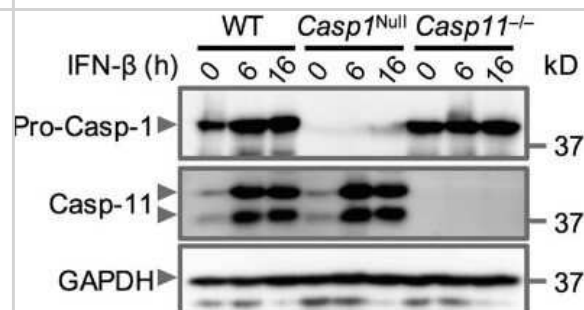
**Western Blot: Caspase-11 Antibody (17D9) - Azide and BSA Free [NBP2-80612]** - Analysis of Caspase-11 in THP-1 cell lysates that were untreated (left lane) or treated (right lane) with 100 ng/ml LPS. Image from verified customer review. Image from the standard format of this antibody.



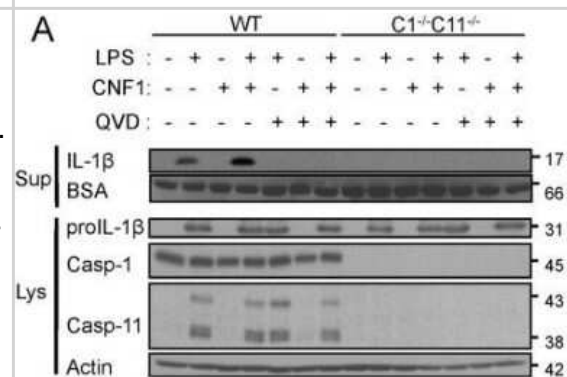
Knockdown Validated: Caspase-11 Antibody (17D9) - Azide and BSA Free [NBP2-80612] - Casp11<sup>fl/fl</sup> and Casp11<sup>EC-/-</sup> mice (n = 3) were challenged with LPS (40 mg/kg i.p.) for 6 hours. Endothelial Cells were isolated from lungs, and western blot analysis was performed for pro-IL-1Beta, mature IL-1Beta, and caspase-1 cleavage. This image is from PMID: 28990935. Image from the standard format of this antibody.



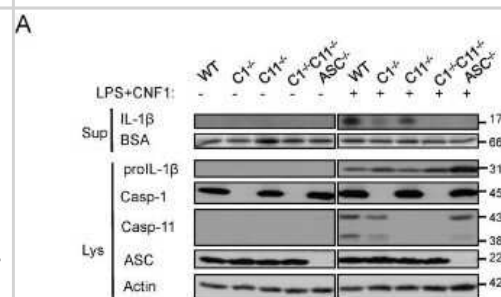
Knockout Validated: Caspase-11 Antibody (17D9) - Azide and BSA Free [NBP2-80612] - Caspase-11 is expressed in Casp1Null bone marrow-derived macrophages. Immunoblot analysis of caspase-1, caspase-11 and GAPDH (loading control) in unprimed WT at various times (above lane) after stimulation with IFN-beta (250U/ml), IFN-gamma (100 ng/ml) or LPS (100 ng/ml). Data are representative of two independent experiments. Image collected and cropped by CiteAb from the following publication (<https://www.nature.com/articles/srep45126>), licensed under a CC-BY license. Image from the standard format of this antibody.



Knockout Validated: Caspase-11 Antibody (17D9) - Azide and BSA Free [NBP2-80612] - CNF1-triggered immunity requires inflammatory caspases. (A and B) IL-1beta production and maturation/secretion after treatment with CNF1, LPS or CNF1 (1 ug/ml) + LPS (100 ng/ml) for 10 h. Actin and BSA were used as loading controls. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.ppat.1004732>), licensed under a CC-BY license. Image from the standard format of this antibody.



Knockout Validated: Caspase-11 Antibody (17D9) - Azide and BSA Free [NBP2-80612] - CNF1-triggered IL-1beta maturation requires activated Rac, ASC and caspase-1. Western blot analysis of the production and maturation/secretion of IL-1beta by primary macrophages following treatment with CNF1, LPS or CNF1+LPS for 10 h. Actin and BSA were used as loading controls. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.ppat.1004732>), licensed under a CC-BY license. Image from the standard format of this antibody.





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### **Products Related to NBP2-80612**

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NBP3-11853	Jurkat Staurosporine Treated / Untreated Cell Lysate
HAF005	Goat anti-Rat IgG Secondary Antibody [HRP]
NBP1-75398	Goat anti-Rat IgG (H+L) Secondary Antibody (Pre-adsorbed)
NBP2-21947-0.1mg	Rat IgG2a Isotype Control (2A3)

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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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