

# Product Datasheet

## Gasdermin D Antibody NBP2-80427

Unit Size: 100 ul

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

[www.novusbio.com](http://www.novusbio.com)



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### Publications: 6

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**NBP2-80427**

## Gasdermin D Antibody

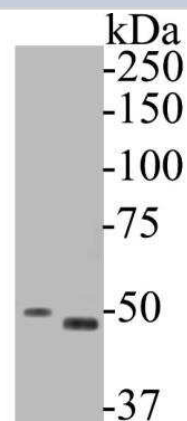
Product Information	
Unit Size	100 ul
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS (pH7.4), 0.2% BSA, 50% Glycerol
Target Molecular Weight	53 kDa

Product Description	
Description	Novus Biologicals Rabbit Gasdermin D Antibody (NBP2-80427) is a polyclonal antibody validated for use in IHC, WB, Flow and ICC/IF. Anti-Gasdermin D Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	79792
Gene Symbol	GSDMD
Species	Human, Mouse, Rat
Immunogen	Recombinant protein within human Gasdermin D aa 100-300. (SwissProt: P57764 Human; SwissProt: Q9D8T2 Mouse; SwissProt: Q9D8T2 Mouse)

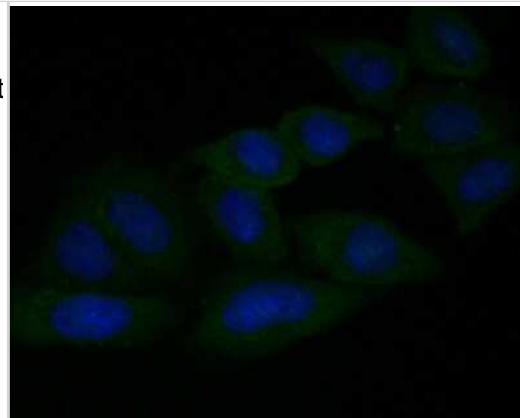
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:500-1:2000, Flow Cytometry 1:50-1:100, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:50-1:100, Immunohistochemistry-Paraffin 1:50-1:200

**Images**

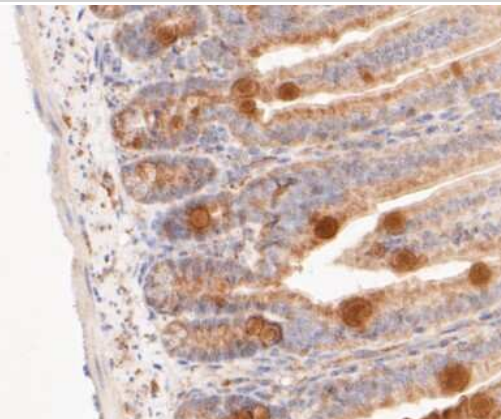
Western Blot: GSDMDC1 Antibody [NBP2-80427] - Analysis of Gasdermin D (N terminal) on different lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (1/500) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1:5,000 dilution was used for 1 hour at room temperature. Positive control: Lane 1: SiHa cell lysate Lane 2: human kidney tissue lysate



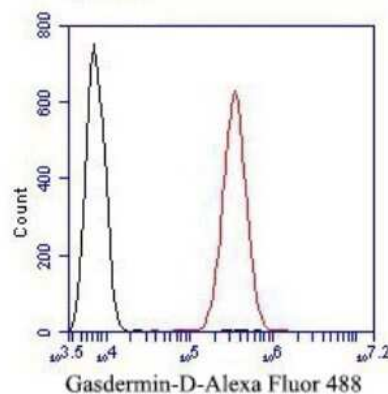
**Immunocytochemistry/Immunofluorescence: GSDMDC1 Antibody [NBP2-80427]** - Staining of Gasdermin D in SiHa cells (green). Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature and blocked with 1% Blocker BSA for 15 minutes at room temperature. Cells were probed with the primary antibody (ER1901-37, 1/50) for 1 hour at room temperature, washed with PBS. Alexa Fluor488 Goat anti-Rabbit IgG was used as the secondary antibody at 1/1,000 dilution. The nuclear counter stain is DAPI (blue).



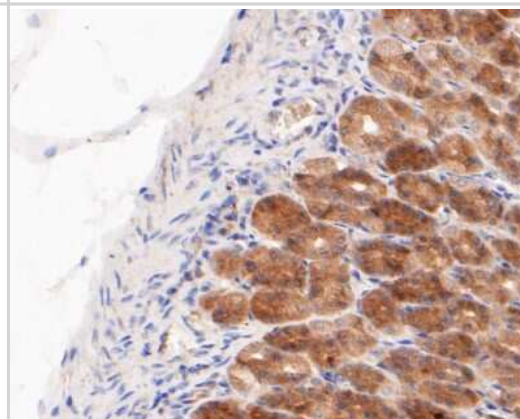
**Immunohistochemistry-Paraffin: GSDMDC1 Antibody [NBP2-80427]** - Analysis in Mouse colon tissue using GSDMDC1 antibody. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with



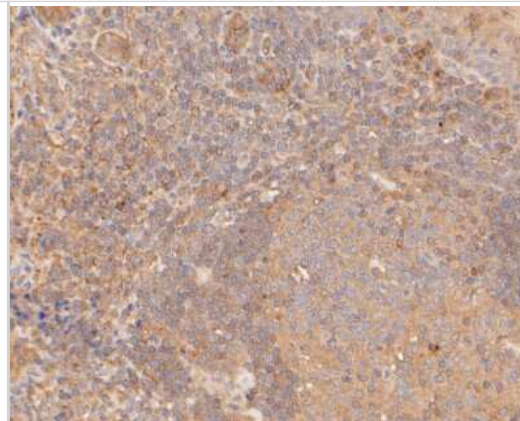
**Flow Cytometry: GSDMDC1 Antibody [NBP2-80427]** - Analysis of GSDMDC1 was done on SiHa cells. The cells were fixed, permeabilized and stained with the primary antibody (1/50) (red). After incubation of the primary antibody at room temperature for an hour, the cells were stained with a Alexa Fluor 488-conjugated Goat anti-Rabbit IgG Secondary antibody at 1/1000 dilution for 30 minutes. Unlabeled sample was used as a control (cells without incubation with primary antibody; black).



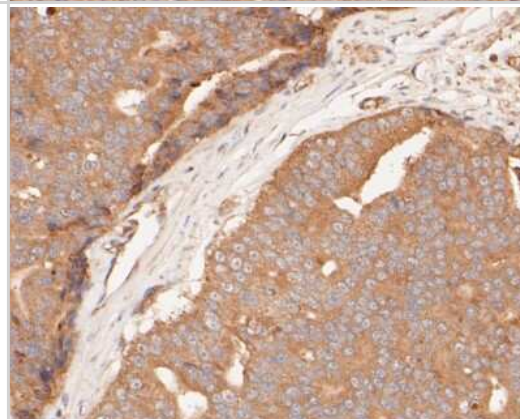
**Immunohistochemistry-Paraffin: GSDMDC1 Antibody [NBP2-80427]** - Analysis in rat stomach tissue using GSDMDC1 antibody. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with



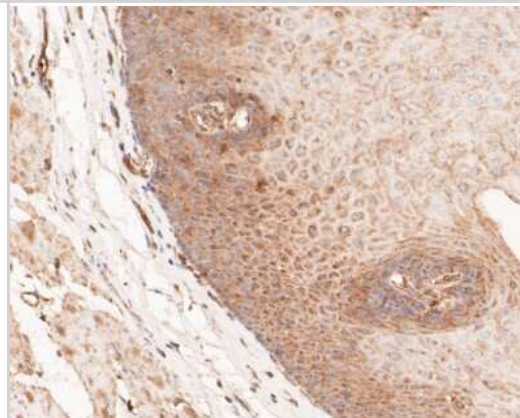
Immunohistochemistry-Paraffin: GSDMDC1 Antibody [NBP2-80427] - Analysis in human tonsil tissue using GSDMDC1 antibody. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with



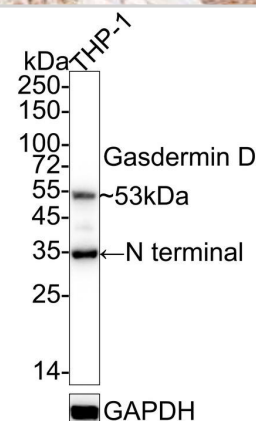
Immunohistochemistry-Paraffin: GSDMDC1 Antibody [NBP2-80427] - Analysis in human prostate carcinoma tissue using GSDMDC1 antibody. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature



Immunohistochemistry-Paraffin: GSDMDC1 Antibody [NBP2-80427] - Analysis in human esophagus tissue using GSDMDC1 antibody. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed



Western blot analysis of Gasdermin D (N terminal) on THP-1 cell lysates with Gasdermin D Antibody (NBP2-80427) at 1/1,000 dilution. Lysates/proteins at 20 ug/Lane. Predicted band size: 53 kDa Observed band size: 53/35 kDa Exposure time: 25 seconds; ECL: K1801; 4-20% SDS-PAGE gel. Proteins were transferred to a PVDF membrane and blocked with 5% NFDN/TBST for 1 hour at room temperature. The primary antibody at 1/1,000 dilution was used in 5% NFDN/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1/50,000 dilution was used for 1 hour at room temperature.



## Publications

J Yang, L Miao, Y Xue, X Wang Yiyi Fuzi Baijiang Powder Alleviates Dextran Sulfate Sodium-Induced Ulcerative Colitis in Rats via Inhibiting the TLR4/NF-kappaB/NLRP3 Inflammasome Signaling Pathway to Repair the Intestinal Epithelial Barrier, and Modulating Intestinal Microbiota Oxidative Medicine and Cellular Longevity, 2023-01-14;2023 (0):3071610. 2023-01-14 [PMID: 36691639] (Western Blot, Human)

Zhou C, Guo Q, Lin J et Al. Single-Cell Atlas of Human Ovaries Reveals The Role Of The Pyroptotic Macrophage in Ovarian Aging Adv Sci (Weinh) 2023-11-30 [PMID: 38036420]

Li M, Lu H, Wang X Et al. Pyruvate kinase M2 (PKM2) interacts with activating transcription factor 2 (ATF2) to bridge glycolysis and pyroptosis in microglia Molecular immunology 2021-11-17 [PMID: 34798593] (IHC-P, WB, Mouse)

Song P, Yi Z, Fu Y Et al. Reversing Postcardiopulmonary Bypass Associated Cognitive Dysfunction Using k-Opioid Receptor Agonists to Regulate Microglial Polarization via the NLRP3/Caspase-1 Pathway Journal of healthcare engineering 2021-10-01 [PMID: 34630980] (Rat)

Shen J, Fan Z, Sun G, Qi G Sacubitril/valsartan (LCZ696) reduces myocardial injury following myocardial infarction by inhibiting NLRP3 induced pyroptosis via the TAK1/JNK signaling pathway Molecular medicine reports 2021-09-01 [PMID: 34296299] (IHC-P)

Liu F, Liu T, Sun M et al. Maxing Shigan Decoction Mitigates Mycoplasma pneumonia-Induced Pyroptosis in A549 Cells via the NLRP3 Inflammasome Infection and drug resistance 2021-03-03 [PMID: 33688221] (WB, Human)





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### **Products Related to NBP2-80427**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
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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