

Rabbit anti-Human GSDMD Polyclonal Antibody | anti-GSDMD antibody

Anti-GSDMD Antibody

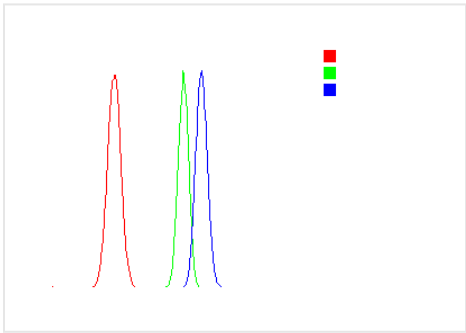
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125674	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

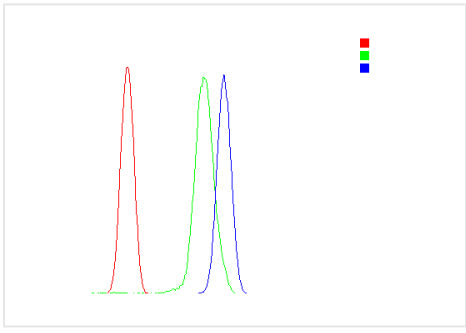
GSDMD; Polyclonal Antibody; Anti-GSDMD Antibody; Gasdermin-D; Gasdermin domain-containing protein 1 [Cleaved into: Gasdermin-D; N-terminal; GSDMD-NT; C-terminal; GSDMD-CT]; DFNA5L; GSDMDC1; FKSG10; gasdermin D; anti-GSDMD antibody

PRODUCT SPECIFICATIONS

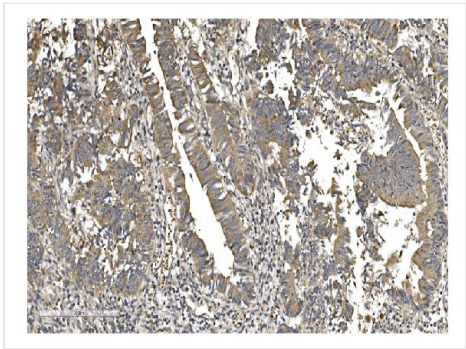
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for GSDMD detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.01mg NaN ₃ .
Applicable Applications for anti-GSDMD antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human GSDMD recombinant protein (Position: M1-H484).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



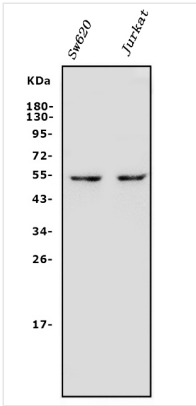
FCM/FACS (Flow Cytometry)
Figure 4. Flow Cytometry analysis of U87 cells using anti-GSDMD antibody (AAA125674).Overlay histogram showing U87 cells stained with AAA125674 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-GSDMD Antibody (AAA125674,1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM/FACS (Flow Cytometry)
Figure 3. Flow Cytometry analysis of THP-1 cells using anti-GSDMD antibody (AAA125674).Overlay histogram showing THP-1 cells stained with AAA125674 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-GSDMD Antibody (AAA125674,1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohiostchemistry)
Figure 2. IHC analysis of GSDMD using anti-GSDMD antibody (AAA125674).GSDMD was detected in paraffin-embedded section of human rectal cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1μg/ml rabbit anti-GSDMD Antibody (AAA125674) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)
Figure 1. Western blot analysis of GSDMD using anti-GSDMD antibody (AAA125674).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human SW620 whole cell lysatesLane 2: human Jurkat whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-GSDMD antigen affinity purified polyclonal antibody (Catalog # AAA125674) at 0. 5 μg/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for GSDMD at approximately 53KD. The expected band size for GSDMD is at 53KD.

ADDITIONAL INFORMATION

Related Product Information for anti-GSDMD antibody	Gasdermin D is a member of the gasdermin family. Members of this family appear to play a role in regulation of epithelial proliferation. Gasdermin D has been suggested to act as a tumor suppressor. Alternatively spliced transcript variants have been described.
References	1. Ruhl, S., Shkarina, K., Demarco, B., Heilig, R., Santos, J. C., Broz, P. ESCRT-dependent membrane repair negatively regulates pyroptosis downstream of GSDMD activation. Science 362: 956-960, 2018. 2. Shi, J., Zhao, Y., Wang, K., Shi, X., Wang, Y., Huang, H., Zhuang, Y., Cai, T., Wang, F., Shao, F. Cleavage of GSDMD by inflammatory caspases determines pyroptotic cell death. Nature 526: 660-665, 2015. 3. Zhu, Q., Zheng, M., Balakrishnan, A., Karki, R., Kanneganti, T. -D. Gasdermin D promotes AIM2 inflammasome activation and is required for host protection against Francisella novicida. J. Immun. 201: 3662-3668, 2018.

NCBI AND UNIPROT INFORMATION

NCBI GI #	83320070
NCBI GeneID	79792
NCBI Accession #	NP_079012.3
NCBI GenBank Nucleotide #	NM_024736.6
UniProt Accession #	P57764; Q96Q98; D3DWJ9
Molecular Weight	52,801 Da
NCBI Official Full Name	gasdermin-D
NCBI Official Synonym Full Names	gasdermin D
NCBI Official Symbol	GSDMD
NCBI Official Synonym Symbols	DF5L; DFNA5L; FKSG10; GSDMDC1
NCBI Protein Information	gasdermin-D; gasdermin domain containing 1; gasdermin domain-containing protein 1
UniProt Protein Name	Gasdermin-D
UniProt Gene Name	GSDMD
UniProt Synonym Gene Names	DFNA5L; GSDMDC1
UniProt Entry Name	GSDMD_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/gsdmd-antibody-direct-elisa-flow-cytometry-immunohistochemistry-western-blot-elisa/125674>