

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

GSDMD Antibody

CATALOG # AAA323099	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Western Blot
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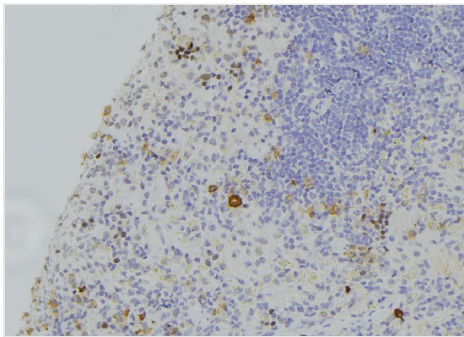
PRODUCT SYNONYMS

GSDMD; Polyclonal Antibody; GSDMD Antibody; 1810036L03Rik; DF 5L; DF5L; DFNA 5L; DFNA5L; FKSG 10; FKSG10; FLJ12150; Gasdermin D; Gasdermin domain containing 1; Gasdermin domain containing protein 1; Gasdermin domain-containing protein 1; Gasdermin-D; GasderminD; GSDMD_HUMAN; GSDMDC 1; GSDMDC1; anti-GSDMD antibody

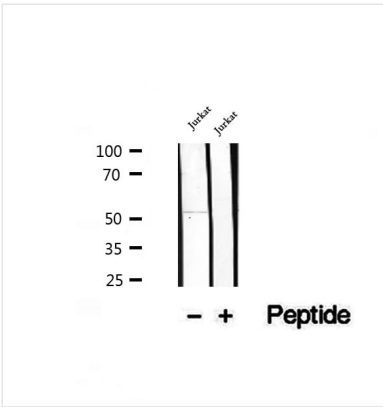
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	GSDMD antibody detects endogenous levels of GSDMD.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	484
Applicable Applications for anti-GSDMD antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human GSDMD.
Subcellular Location	Cytosol; Extracellular Region or Secreted; Plasma Membrane
Tissue Specificity	Expressed in the suprabasal cells of esophagus, as well as in the isthmus/neck, pit, and gland of the stomach, suggesting preferential expression in differentiating cells.
Predicted Cross Reactivity	Pig, Bovine, Horse, Dog
Similarity	Pig (82%), Bovine (82%), Horse (82%), Dog (91%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA323099 at 1/100 staining Human lymph node tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts of Jurkat cells, using GSDMD antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-GSDMD antibody	Function: Gasdermin-D, N-terminal: Promotes pyroptosis in response to microbial infection and danger signals. Produced by the cleavage of gasdermin-D by inflammatory caspases CASP1 or CASP4 in response to canonical, as well as non-canonical (such as cytosolic LPS) inflammasome activators (PubMed:26375003, PubMed:26375259, PubMed:27418190). After cleavage, moves to the plasma membrane where it strongly binds to inner leaflet lipids, including monophosphorylated phosphatidylinositols, such as phosphatidylinositol 4-phosphate, bisphosphorylated phosphatidylinositols, such as phosphatidylinositol (4, 5)-bisphosphate, as well as phosphatidylinositol (3, 4, 5)-bisphosphate, and more weakly to phosphatidic acid and phosphatidylserine (PubMed:27281216). Homooligomerizes within the membrane and forms pores of 10-15 nanometers (nm) of inner diameter, possibly allowing the release of mature IL1B and triggering pyroptosis (PubMed:27418190, PubMed:27281216). Exhibits bactericidal activity. Gasdermin-D, N-terminal released from pyroptotic cells into the extracellular milieu rapidly binds to and kills both Gram-negative and Gram-positive bacteria, without harming neighboring mammalian cells, as it does not disrupt the plasma membrane from the outside due to lipid-binding specificity (PubMed:27281216). Under cell culture conditions, also active against intracellular bacteria, such as Listeria monocytogenes (By similarity). Strongly binds to bacterial and mitochondrial lipids, including cardiolipin. Does not bind to unphosphorylated phosphatidylinositol, phosphatidylethanolamine nor phosphatidylcholine (PubMed:27281216). Subunit Structure: In response to a canonical inflammasome stimulus, such as nigericin, recruited to NLRP3 inflammasome with similar kinetics to that of uncleaved CASP1 precursor. Although this recruitment is also observed in the absence of PYCARD, it is more efficient in its presence (By similarity). Gasdermin-D, N-terminal forms disulfide-linked homooligomers (16-mers) in a Ca(+2)-independent manner. Oligomerization occurs in the presence of membranes; cytosolic Gasdermin-D, N-terminal remains monomeric (PubMed:27281216). Post-translational Modifications: Cleavage at Asp-275 by CASP1 (mature and uncleaved precursor forms) or CASP4 relieves autoinhibition and is sufficient to initiate pyroptosis (PubMed:26375003). Cleavage at Asp-87 by CASP3 (PubMed:28045099). Similarity: Intramolecular interactions between N-and C-terminal domains may be important for autoinhibition in the absence of cleavage by inflammatory caspases CASP1 or CASP4. The intrinsic pyroptosis-inducing activity is carried by gasdermin-D, N-terminal, that is released upon cleavage by inflammatory caspases. Belongs to the gasdermin family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	261878494
NCBI GeneID	79792
NCBI Accession #	NP_001159709.1
NCBI GenBank Nucleotide #	NM_001166237.1
UniProt Accession #	P57764; Q96Q98; A8K702; D3DWJ9
Molecular Weight	Observed: 50-53 kDa Predicted: 53 kDa

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
UniProt Protein Name	Gasdermin-D
UniProt Gene Name	GSDMD
UniProt Synonym Gene Names	DFNA5L; GSDMDC1; GSDMD-NT; GSDMD-CT

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-immunohistochemistry-western-blot-elisa/323099>