

Gasdermin D / GSDMD Antibody (clone 3F12-1B2)
Mouse Monoclonal Antibody
Catalog # ALS13498**Specification****Gasdermin D / GSDMD Antibody (clone 3F12-1B2) - Product Information**

Application	WB, IHC-P, IF, E
Primary Accession	P57764
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	53kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A IF~~1:50~200 E~~N/A

Gasdermin D / GSDMD Antibody (clone 3F12-1B2) - Additional Information**Gene ID** 79792**Other Names**

Gasdermin-D, Gasdermin domain-containing protein 1, GSDMD, DFNA5L, GSDMDC1

Reconstitution & Storage

Store at -20°C. Aliquot to avoid freeze/thaw cycles.

Precautions

Gasdermin D / GSDMD Antibody (clone 3F12-1B2) is for research use only and not for use in diagnostic or therapeutic procedures.

Gasdermin D / GSDMD Antibody (clone 3F12-1B2) - Protein Information**Name** GSDMD {ECO:0000303|PubMed:26375003, ECO:0000312|HGNC:HGNC:25697}**Function**

[Gasdermin-D]: Precursor of a pore-forming protein that plays a key role in host defense against pathogen infection and danger signals (PubMed:26375003, PubMed:26375259, PubMed:27281216). This form constitutes the precursor of the pore-forming protein: upon cleavage, the released N-terminal moiety (Gasdermin-D, N-terminal) binds to membranes and forms pores, triggering pyroptosis (PubMed:26375003, PubMed:26375259, PubMed:27281216).

Cellular Location

[Gasdermin-D]: Cytoplasm, cytosol. Inflammasome {ECO:0000250|UniProtKB:Q9D8T2}. Note=In response to a canonical inflammasome stimulus, such as nigericin, recruited to NLRP3 inflammasome with similar kinetics to that of uncleaved CASP1 precursor. {ECO:0000250|UniProtKB:Q9D8T2} [Gasdermin-D, N-terminal]: Cytoplasm, cytosol. Note=(Microbial infection) Upon infection by M.tuberculosis, localization to cell membrane is prevented by M.tuberculosis phosphatase PtpB that catalyzes dephosphorylation of phosphatidylinositol (4,5)-bisphosphate and phosphatidylinositol 4- phosphate, thereby inhibiting the membrane targeting of Gasdermin-D, N- terminal and subsequent cytokine release and pyroptosis [Gasdermin-D, C-terminal]: Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q9D8T2}

Tissue Location

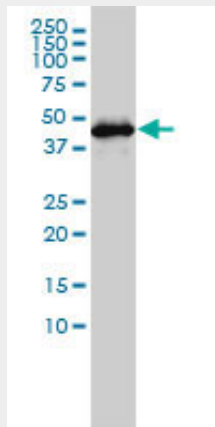
Expressed in the suprabasal cells of esophagus, as well as in the isthmus/neck, pit, and gland of the stomach, suggesting preferential expression in differentiating cells

Gasdermin D / GSDMD Antibody (clone 3F12-1B2) - Protocols

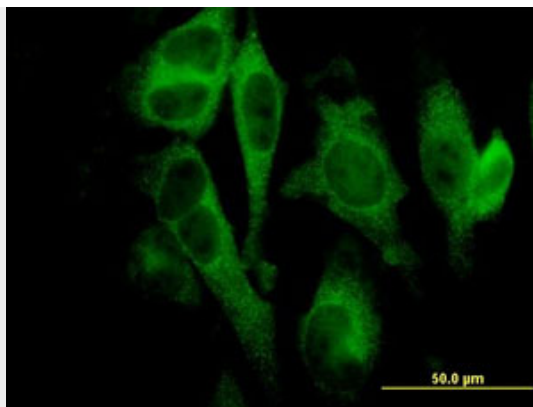
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Gasdermin D / GSDMD Antibody (clone 3F12-1B2) - Images



GSDMD1 monoclonal antibody, clone 3F12-1B2 Western blot of GSDMD1 expression in Jurkat.



Immunofluorescence of monoclonal antibody to GSDMDC1 on HeLa cell (antibody concentration 10 ug/ml).

Gasdermin D / GSDMD Antibody (clone 3F12-1B2) - References

Wang Y.-G.,et al.Submitted (SEP-2000) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Nusbaum C.,et al.Nature 439:331-335(2006).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Katoh M.,et al.Int. J. Oncol. 25:765-770(2004).