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

Mouse Monoclonal Antibody
Catalog # ALS13498

Specification

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

Application	**WB, IF**
Primary Accession	P57764
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**53kDa KDa**

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 inflammasone 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}

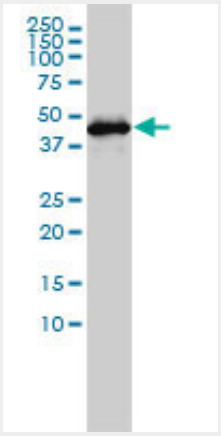
Tissue Location
Expressed in the suprabasal cells of esophagus, as well as in the isthmus/neck, pit, and gland of the stomach, suggesting preferential expression in differentiating cells

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

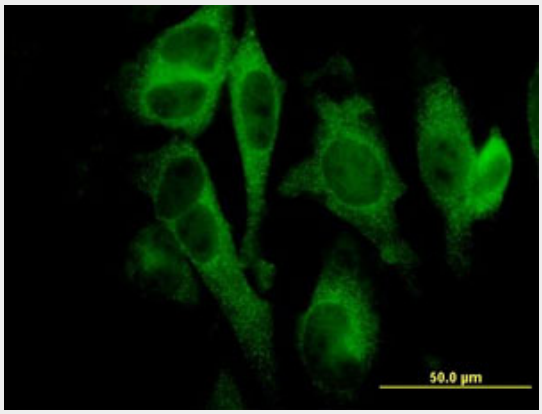
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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



GSDMDC1 monoclonal antibody, clone 3F12-1B2 Western blot of GSDMDC1 expression in Jurkat.



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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).