10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

GSDMDC1 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP7469a

Specification

GSDMDC1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession P57764

GSDMDC1 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 79792

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

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7469a was selected from the N-term region of human GSDMDC1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GSDMDC1 Antibody (N-term) Blocking Peptide - 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

GSDMDC1 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

GSDMDC1 Antibody (N-term) Blocking Peptide - Images

GSDMDC1 Antibody (N-term) Blocking Peptide - References

Katoh M., Katoh M.Int. J. Oncol. 25:765-770(2004)Rush J., Moritz A.Nat. Biotechnol. 23:94-101(2005)