Datasheet for ABIN7566424

anti-GSDMD antibody

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Overview

Quantity:	100 µg
Target:	GSDMD
Reactivity:	Mouse
Host:	Guinea Pig
Clonality:	Polyclonal
Conjugate:	This GSDMD antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	anti-Gasdermin D (mouse), pAb (IN110)
Immunogen:	Recombinant mouse gasdermin D (C-terminus).
Characteristics:	Polyclonal Antibody. Recognizes full-length and cleaved C-terminus domain of mouse gasdermin D. Does not cross-react with human gasdermin D. Source/Host: Guinea pig. Applications: ELISA, WB. Liquid. In PBS containing 10 % glycerol and 0.02 % sodium azide. Inflammasomes are multimeric protein complexes that comprise a sensor (e.g. NLRP3), an adaptor (ASC/Pycard) and the procaspase-1. An inflammasome assembles in response to a diverse range of pathogen-associated or danger-associated molecular patterns (PAMPs or DAMPs). The inflammasome platform leads to activation of caspase-1, which further induces maturation of interleukin-1beta and -18 (IL-1beta and IL-18) through proteolytic cleavage of pro-IL-1beta and pro-IL-18. Activated caspase-1, and also the recently characterized caspase-11 non-canonical inflammasome pathway, also cleave the intracellular gasdermin D, which leads to a particular form of inflammatory cell death called pyroptosis. The gasdermin family

Product Details

	members contain N-terminal domains that are capable of forming membrane pores to induce cytolysis, whereas the C-terminal domains of gasdermins function as inhibitors of such cytolysis through intramolecular domain association. Caspase-1 or -11 cleavage of gasdermin D is required for regulation of pyroptosis: upon protease cleavage of the gasdermin N- and C-domain linker, the disruption of the intramolecular domain interaction in the presence of lipids releases the N-domain to assemble oligomeric membrane pores that trigger cell death. Gasdermin D seems to be a key effector in the LPS-induced lethal sepsis. Inflammasomes are multimeric protein complexes that comprise a sensor (e.g. NLRP3), an adaptor (ASC/Pycard) and the procaspase-1. An inflammasome assembles in response to a diverse range of pathogen-associated or danger-associated molecular patterns (PAMPs or DAMPs). The inflammasome platform leads to activation of caspase-1, which further induces maturation of interleukin-1beta and -18 (IL-1beta and IL-18) through proteolytic cleavage of pro-IL-1beta and pro-IL-18. Activated caspase-1, and also the recently characterized caspase-11 non-canonical inflammasome pathway, also cleave the intracellular gasdermin D, which leads to a particular form of inflammatory cell death called pyroptosis. The gasdermin family members contain N-terminal domains that are capable of forming membrane pores to induce cytolysis, whereas the C-terminal domains of gasdermins function as inhibitors of such cytolysis through intramolecular domain association. Caspase-1 or -11 cleavage of gasdermin D is required for regulation of pyroptosis: upon protease cleavage of the gasdermin N- and C-domain linker, the disruption of the intramolecular domain interaction in the presence of lipids releases the N-domain to assemble oligomeric membrane pores that trigger cell death. Gasdermin D seems to be a key effector in the LPS-induced lethal sepsis.
Purification:	Puified
Purity:	>95 % (SDS-PAGE)

Target Details

Target:	GSDMD
Alternative Name:	Gasdermin D (GSDMD Products)
UniProt:	Q9D8T2
Pathways:	Inflammasome

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.

Application Details

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	In PBS containing 10 % glycerol and 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	After opening, prepare aliquots and store at -20 °C.Avoid freeze/thaw cycles.
Storage:	4 °C,-20 °C
Storage Comment:	+4°C Stable for at least 1 year after receipt when stored at -20°C.