ARG42602
anti-GSDME / DFNA5 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes GSDME / DFNA5
Tested Reactivity	Hu
Tested Application	IP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	GSDME / DFNA5
Species	Human
Immunogen	Recombinant protein corresponding to aa. 1-270 of Human GSDME / DFNA5.
Conjugation	Un-conjugated
Alternate Names	Inversely correlated with estrogen receptor expression 1; Non-syndromic hearing impairment protein 5; ICERE-1

Application Instructions

Application table

Application	Dilution
IP	1:20
WB	1:1000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Affinity purified.
Buffer	50 mM Tris-Glycine (pH 7.4), 150 mM NaCl, 0.01% Sodium azide, 40% Glycerol and 0.05% BSA.
Preservative	0.01% Sodium azide
Stabilizer	40% Glycerol and 0.05% BSA
Concentration	Batch dependent
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	DFNA5
Gene Full Name	deafness, autosomal dominant 5
Background	Hearing impairment is a heterogeneous condition with over 40 loci described. The protein encoded by this gene is expressed in fetal cochlea, however, its function is not known. Nonsyndromic hearing impairment is associated with a mutation in this gene. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
Function	Plays a role in the TP53-regulated cellular response to DNA damage probably by cooperating with TP53 (PubMed:16897187, PubMed:18223688). [Gasdermin-E, N-terminal]: Switches CASP3-mediated apoptosis induced by TNF or danger signals, such as chemotherapy drugs, to pyroptosis (PubMed:28459430, PubMed:27281216). Produced by the cleavage of GSDME by CASP3, perforates cell membrane and thereby induces pyroptosis. After cleavage, moves to the plasma membrane where it strongly binds to inner leaflet lipids, bisphosphorylated phosphatidylinositols, such as phosphatidylinositol (4,5)-bisphosphate (PubMed:28459430). Mediates secondary necrosis downstream of the mitochondrial apoptotic pathway and CASP3 activation as well as in response to viral agents (PubMed:28045099). Exhibits bactericidal activity (PubMed:27281216). [UniProt]
Highlight	Related news: Solutions for studying PANoptosis & PANoptosome
Calculated Mw	55 kDa
Cellular Localization	Gasdermin-E, N-terminal: Cell membrane. Gasdermin-E: Cytoplasm, cytosol. [UniProt]

Images

ARG42602 anti-GSDME / DFNA5 antibody WB image

Western blot: HeLa cell lysate stained with ARG42602 anti-GSDME / DFNA5 antibody at 1:500 dilution.