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GSDMA Rabbit pAb

Catalog # AP99371

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q96QA5
Other Accession	Q96QA5
Reactivity	Rat, Mouse
Predicted	Human, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	49365
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GSDMA
Epitope Specificity	21-120/445
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the gasdermin family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Gasdermin is a 445 amino acid protein that localizes to the perinuclear region of the cytoplasm and belongs to the gasdermin family. Expressed predominately in tissues of the gastrointestinal tract and also present in skin and mammary gland, gasdermin functions to induce apoptosis and is thought to possess tumor suppression activity, specifically in gastric cancer cells. The gene encoding gasdermin maps to human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes. Two key tumor suppressor genes are associated with chromosome 17, namely, p53 and BRCA1. Tumor suppressor p53 is necessary for maintenance of cellular genetic integrity by moderating cell fate through DNA repair versus cell death. Malfunction or loss of p53 expression is associated with malignant cell growth and Li-Fraumeni syndrome. Like p53, BRCA1 is directly involved in DNA repair, though specifically it is recognized as a genetic determinant of early onset breast cancer and predisposition to cancers of the ovary, colon, prostate gland and fallopian tubes.

Additional Information

Gene ID	284110
Other Names	FKSG9; GSDM; GSDM1; Gsdma1; H312E; GSDMA_HUMAN; GSDMA; Gasdermin-1; GSDMA_MOUSE; Gasdermin-A1; gasdermin A; gasdermin; gasdermin 1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	GSDMA (HGNC:13311)
Function	[Gasdermin-A]: This form constitutes the precursor of the pore-forming protein and acts as a sensor of infection: upon infection by S.pyogenes, specifically cleaved by S.pyogenes effector protein SpeB in epithelial cells, releasing the N-terminal moiety (Gasdermin-A, N- terminal) that binds to membranes and forms pores, triggering pyroptosis.
Cellular Location	[Gasdermin-A]: Cytoplasm, perinuclear region. Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q5Y4Y6}
Tissue Location	Expressed predominantly in the gastrointestinal tract and, at a lower level, in the skin. Also detected in mammary gland. In the gastrointestinal tract, mainly expressed in differentiated cells, including the differentiated cell layer of esophagus and mucus-secreting pit cells of the gastric epithelium Down-regulated in gastric cancer cells.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.