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DFNA5 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6842A

Product Information

Application	WB, E
Primary Accession	O60443
Reactivity	Human
Predicted	Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB20936
Calculated MW	54555
Antigen Region	59-87

Additional Information

Gene ID	1687
Other Names	Non-syndromic hearing impairment protein 5, Inversely correlated with estrogen receptor expression 1, ICERE-1, DFNA5, ICERE1
Target/Specificity	This DFNA5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 59-87 amino acids from the N-terminal region of human DFNA5.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	DFNA5 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GSDME {ECO:0000303|PubMed:28459430, ECO:0000312|HGNC:HGNC:2810}
Function	[Gasdermin-E]: Precursor of a pore-forming protein that converts non-inflammatory apoptosis to pyroptosis (PubMed:27281216, PubMed:28459430, PubMed:33852854, PubMed:35594856,

PubMed:36607699). This form constitutes the precursor of the pore-forming protein: upon cleavage, the released N-terminal moiety (Gasdermin-E, N-terminal) binds to membranes and forms pores, triggering pyroptosis (PubMed:28459430).

Cellular Location

[Gasdermin-E, N-terminal]: Cell membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q5Y4Y6}

Tissue Location

Expressed in cochlea (PubMed:9771715). Low level of expression in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas, with highest expression in placenta (PubMed:9771715).

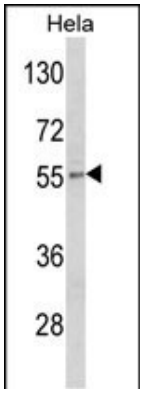
Background

Hearing impairment is a heterogeneous condition with over 40 loci described. DFNA5 is expressed in fetal cochlea, however, its function is not known.

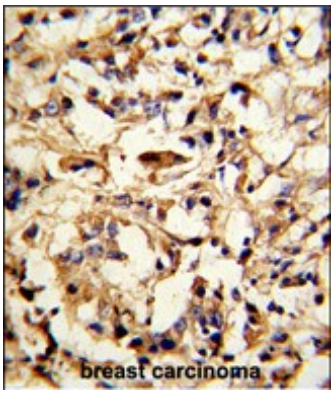
References

Cheng,J., et.al., Clin. Genet. 72 (5), 471-477 (2007)

Images

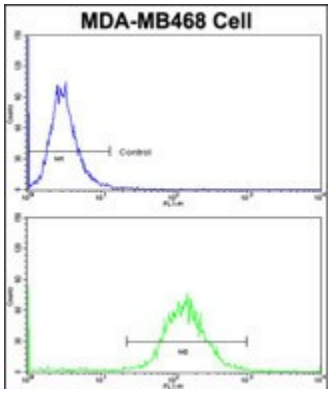


Western blot analysis of DFNA5 Antibody (N-term) (Cat. #AP6842a) in Hela cell line lysates (35ug/lane). DFNA5 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human breast carcinoma reacted with DFNA5 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Flow cytometric analysis of MDA-MB468 cells using DFNA5 Antibody (N-term)(bottom histogram) compared to a negative control cell (top histogram)FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



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