

For Research Use Only

# DFNA5 Polyclonal antibody

Catalog Number: 13075-1-AP

Featured Product

46 Publications



## Basic Information

### Catalog Number:

13075-1-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG3746

### GenBank Accession Number:

BC019689

### GeneID (NCBI):

1687

### UNIPROT ID:

O60443

### Full Name:

deafness, autosomal dominant 5

### Calculated MW:

496 aa, 55 kDa

### Observed MW:

55 kDa, 35 kDa, 25 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:8000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, FC (Intra), IP, ELISA

### Cited Applications:

WB, IHC, IF, ColP

### Species Specificity:

human, mouse

### Cited Species:

human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : SH-SY5Y cells, A549 cells, Y79 cells, HeLa cells

IP : SH-SY5Y cells,

IHC : mouse brain tissue, mouse small intestine tissue

## Background Information

DFNA5 (deafness, autosomal dominant 5), also known as GSDME or ICERE-1, is a 496 amino acid protein that is expressed in cochlea tissue, as well as in placenta, brain, heart, liver, lung and pancreas. Defects in the gene encoding DFNA5 are the cause of non-syndromic sensorineural deafness autosomal dominant type 5 (DFNA5), a form of sensorineural hearing loss that results from damage to one of various structures that receive sound information in the brain. GSDME produced two GSDME fragments with MW of 35 kDa and 25 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yuanli Huang	34594133	Cancer Manag Res	IHC
Yuan-Li Huang	34553845	Cancer Rep (Hoboken)	IHC
Xiaolin Zhong	36100190	Brain Res Bull	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

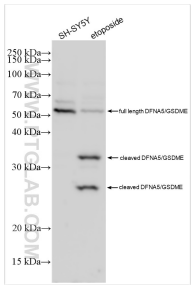
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

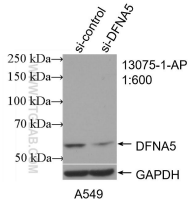
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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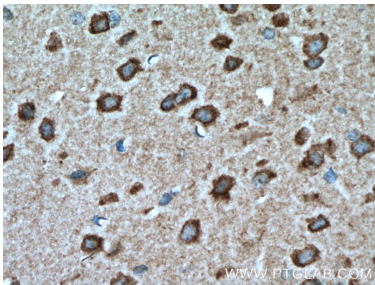
Selected Validation Data



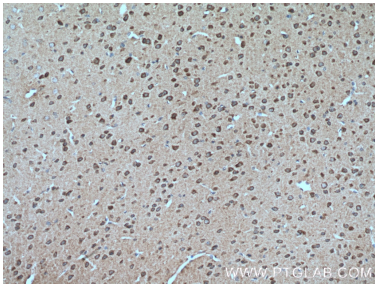
Untreated, and etoposide (60uM, 5h) treated SH-SY5Y cells were subjected to SDS PAGE followed by western blot with 13075-1-AP (DFNA5/GSDME antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



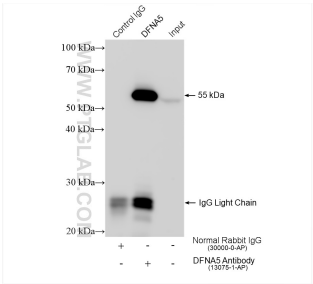
WB result of DFNA5/ GSDME antibody (13075-1-AP; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-DFNA5/ GSDME transfected A549 cells.



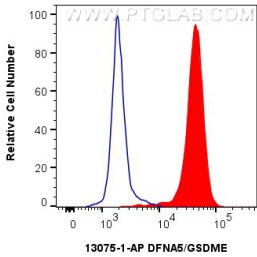
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 13075-1-AP (DFNA5 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 13075-1-AP (DFNA5 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-DFNA5/GSDME (IP:13075-1-AP, 4ug; Detection:13075-1-AP 1:15000) with SH-SY5Y cells lysate 1240 ug.



1x10<sup>6</sup> SH-SY5Y cells were intracellularly stained with 0.4 ug Anti-Human DFNA5/GSDME (13075-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).