For Research Use Only

DFNA5/GSDME Polyclonal antibody

Catalog Number:13075-1-AP Featured Product 30 Publications

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Basic Information

Catalog Number:
13075-1-AP

Size:
150ul , Concentration: 500 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG3746

GenBank Accession Number:
BC019689

GeneID (NCBI):
1687

Full Name:
deafness, autosomal dominant 5

Calculated MW:
496 aa, 55 kDa

Observed MW:
55 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:2000-1:10000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500

Applications

Tested Applications:
FC, IHC, IP, WB, ELISA

Cited Applications:
CoIP, IF, IHC, WB

Species Specificity:
human, mouse

Cited Species:
human, mouse

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 : A549 cells, Y79 cells, SH-SY5Y 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, is a protein made of a 31 kDa N-terminus (GSDMD-N) and a 22 kDa C-terminus (GSDMD-C) connected by a peptide linker. Upon activation, the linker is cleaved to separate GsdmD-N from its autoinhibitory domain, GSDMD-C. GSDMD-N forms a transmembrane pore that releases cytokines such as interleukin IL-1β and IL-18 and also disturbs the regulation of ions and water, eventually resulting in pyroptosis.

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

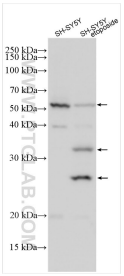
Storage

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

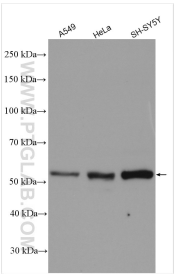
***** 20ul sizes contain 0.1% BSA**

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
W: ptglab.com

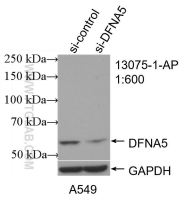
Selected Validation Data



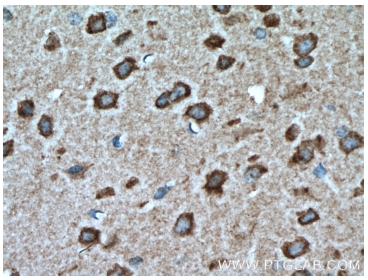
Untreated, and etoposide treated SH-SY5Y cells were subjected to SDS PAGE followed by western blot with 13075-1-AP (DFNA5/GSDME antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



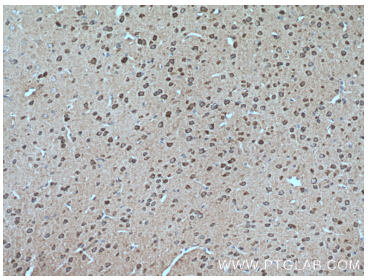
Various lysates were subjected to SDS PAGE followed by western blot with 13075-1-AP (DFNA5/GSDME antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



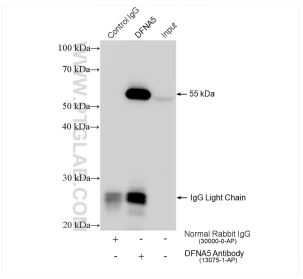
WB result of DFNA5/ GSDME antibody (13075-1-AP; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-DFNA5/ GSDME transfected A549 cells.



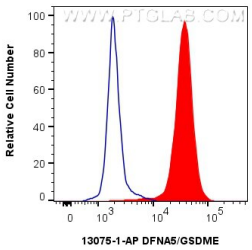
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 13075-1-AP (DFNA5 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.



1x10^6 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).