

For Research Use Only

Cleaved GSDME (Asp270), C-terminal Recombinant monoclonal antibody

Catalog Number: 88249-1-RR



Basic Information

Catalog Number:

88249-1-RR

Size:

100ul, Concentration: 1000 µg/ml by
Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC019689

GeneID (NCBI):

1687

UNIPROT ID:

O60443

Full Name:

deafness, autosomal dominant 5

Calculated MW:

496 aa, 55 kDa

Observed MW:

25 kDa

Purification Method:

Protein A purification

CloneNo.:

253373H3

Recommended Dilutions:

WB: 1:500-1:2000

FC (Intra): 0.25 ug per 10⁶ cells in a
100 µl suspension

Applications

Tested Applications:

WB, FC (Intra), ELISA

Species Specificity:

human

Positive Controls:

WB : Doxorubicin hydrochloride treated A431 cells,
etoposide treated SH-SY5Y cells

FC (Intra) : etoposide treated SH-SY5Y cells,

Background Information

GSDME, also known as DFNA5 (deafness, autosomal dominant 5), is a member of the gasdermin family of pore-forming proteins. In its full-length form, GSDME is autoinhibited. Upon apoptotic stimulation, active caspase-3 specifically cleaves GSDME at a conserved aspartate residue, Asp270 (D270). This cleavage of Gasdermin E separates the N-terminal pore-forming domain from the C-terminal repressor domain. The released N-terminal fragment then inserts into the plasma membrane, forms large pores, and induces a lytic, inflammatory form of cell death known as pyroptosis. Therefore, Asp270 cleavage is a critical molecular switch that converts caspase-3-mediated apoptosis into pyroptosis, linking GSDME/DFNA5 to cancer therapy, chemotherapy-induced toxicity, and hearing loss pathology.

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

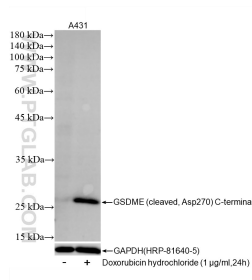
For technical support and original validation data for this product please contact:

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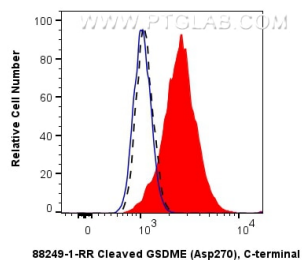
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Selected Validation Data



Doxorubicin hydrochloride treated A431 cells were subjected to SDS PAGE followed by western blot with 88249-1-RR (Cleaved GSDME (Asp270), C-terminal antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



1X10⁶ SH-SY5Y cells untreated (dashed lines) or treated with etoposide which intracellularly stained with 0.25 µg cleaved GSDME (Asp270), C-terminal Recombinant monoclonal antibody (88249-1-RR, Clone:253373H3) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 µg Isotype Control (blue). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit (PF00019).