

For Research Use Only

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



Catalog Number: 88249-1-PBS

Basic Information

Catalog Number: 88249-1-PBS	GenBank Accession Number: BC019689	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 1687	CloneNo.: 253373H3
Isotype: IgG	UNIPROT ID: O60443	
	Full Name: deafness, autosomal dominant 5	
	Calculated MW: 496 aa, 55 kDa	
	Observed MW: 25 kDa	

Applications

Tested Applications:
WB, FC (Intra), Indirect ELISA

Species Specificity:
human

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 -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

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

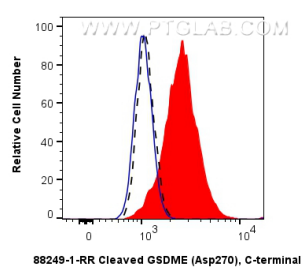
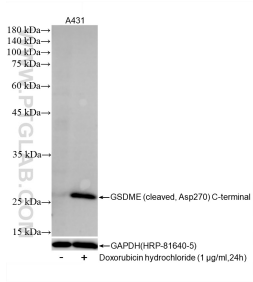
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Selected Validation Data



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. This data was developed using the same antibody clone with 88249-1-PBS in a different storage buffer formulation.

1×10^6 SH-SY5Y cells untreated (dashed lines) or treated with etoposide which intracellularly stained with 0.25 ug 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 ug Isotype Control (blue). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit (PF00019).

