

For Research Use Only

# FcZero-rAb™ APC Anti-Human Granzyme B Rabbit Recombinant Antibody

Catalog Number: APC-FcA98070



## Basic Information

<b>Catalog Number:</b> APC-FcA98070	<b>GenBank Accession Number:</b> BC030195	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100tests , 5 ul/test	<b>GeneID (NCBI):</b> 3002	<b>CloneNo.:</b> 240761G4
<b>Source:</b> Rabbit	<b>Full Name:</b> granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1)	<b>Recommended Dilutions:</b> FC (Intra): 5 ul per 10 <sup>6</sup> cells in 100 µl suspension
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 247 aa, 28 kDa	<b>Excitation/Emission maxima wavelengths:</b> 650 nm / 660 nm

## Applications

<b>Tested Applications:</b> FC (Intra)	<b>Positive Controls:</b> FC (Intra) : human PBMCs,
<b>Species Specificity:</b> human	

## Background Information

GZMB (Granzyme B) is also named as CGL1, CSPB, CTLA1, GRB and belongs to the Granzyme subfamily. This enzyme is necessary for target cell lysis in cell-mediated immune responses. The cytotoxic lymphocyte protease granzyme B (GzmB) can promote apoptosis through direct processing and activation of members of the caspase family. GzmB can also cleave the BH3-only protein, BID, to promote caspase-independent mitochondrial permeabilization (PMID:17283187). GzmB induces lamin B degradation in isolated nuclei less efficiently than GzmA (PMID:11331782). This full-length protein has 2 glycosylation sites and a signal peptide. Unglycosylated human granzyme B is 26 kDa and high mannose glycosylated is 32 kDa and only 32 kDa or smaller forms of granzyme B are accumulated within nuclei (PMID:8626751). GzmB also forms dimers.

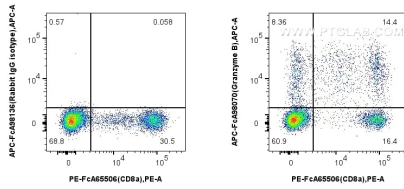
## Storage

**Storage:**  
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.09% sodium azide and 0.5% BSA, pH7.3

For technical support and original validation data for this product please contact:  
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## Selected Validation Data



1x10<sup>6</sup> human PBMCs were intracellularly stained with FcZero-rAb™ PE Anti-Human CD8a (OKT8) and 5 ul APC Anti-Human Granzyme B Rabbit RecAb (APC-FcA98070, Clone:240761G4), or APC Rabbit IgG Isotype Control RecAb (APC-FcA98136, Clone: 240953C9). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).