

For Research Use Only

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

Catalog Number: PE-FcA98070



## Basic Information

|  |   |  |
|--|---|--|
| <b>Catalog Number:</b><br>PE-FcA98070      | <b>GenBank Accession Number:</b><br>BC030195  | <b>Purification Method:</b><br>Protein A purification  |
| <b>Size:</b><br>100tests , 5 ul/test       | <b>GeneID (NCBI):</b><br>3002   | <b>CloneNo.:</b><br>240761G4   |
| <b>Source:</b><br>Rabbit                   | <b>Full Name:</b><br>granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1) | <b>Recommended Dilutions:</b><br>FC (Intra): 5 ul per 10 <sup>6</sup> cells in 100 µl suspension |
| <b>Isotype:</b><br>IgG                     | <b>Calculated MW:</b><br>247 aa, 28 kDa   | <b>Excitation/Emission maxima wavelengths:</b><br>496 nm, 565 nm / 578 nm                        |
| <b>Immunogen Catalog Number:</b><br>EG0592 |   |  |

## Applications

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

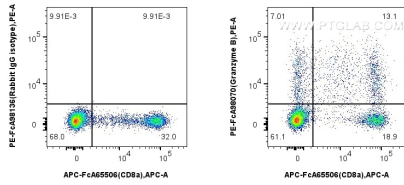
## Storage

**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:  
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)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



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