

For Research Use Only

# Anti-Human Granzyme B Rabbit Recombinant Antibody

Catalog Number: 98070-1-RR



## Basic Information

<b>Catalog Number:</b> 98070-1-RR	<b>GenBank Accession Number:</b> BC030195	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, 1000 µg/ml	<b>GeneID (NCBI):</b> 3002	<b>CloneNo.:</b> 240761G4
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P10144	
<b>Isotype:</b> IgG	<b>Full Name:</b> granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1)	
	<b>Calculated MW:</b> 247 aa, 28 kDa	

## Applications

**Tested Applications:**  
FC (Intra)

**Species Specificity:**  
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 laminB 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 32kDa or smaller forms of granzyme B are accumulated within nuclei (PMID:8626751). GzmB also forms dimers.

## Storage

**Storage:**  
Store at 2 - 8°C. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 0.09% sodium azide, pH 7.3.

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

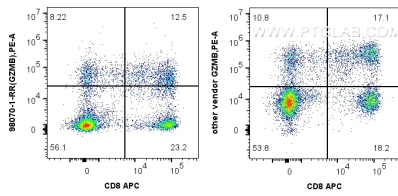
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

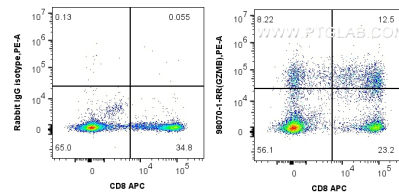
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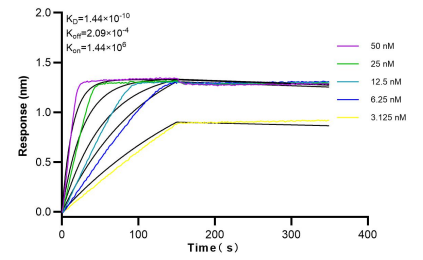
## Selected Validation Data



1x10<sup>6</sup> human PBMCs were intracellularly stained with 0.25 ug Anti-Human Granzyme B Rabbit Recombinant Antibody (98070-1-RR, Clone:240761G4) and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), and 0.25 ug APC Anti-Human CD8a (OKT8) (APC-65135, Clone: OKT8), and 0.25 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



1x10<sup>6</sup> human PBMCs were stained with APC Anti-Human CD8a (OKT8) (APC-65135, Clone: OKT8) and 0.25 ug Anti-Human Granzyme B Rabbit Recombinant Antibody (98070-1-RR, Clone:240761G4), or Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Bi-layer interferometry (BLI) kinetic assays of 98070-1-RR against Human Granzyme B were performed. The affinity constant is 0.144 nM.