

For Research Use Only

Anti-Human Granzyme B Rabbit Recombinant Antibody

Catalog Number: 98070-1-RR



Basic Information

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

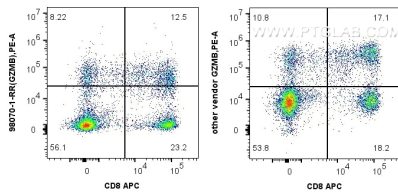
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

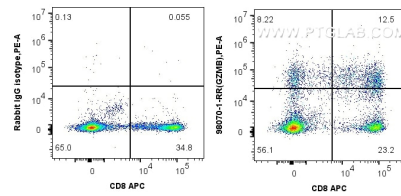
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W: ptglab.com

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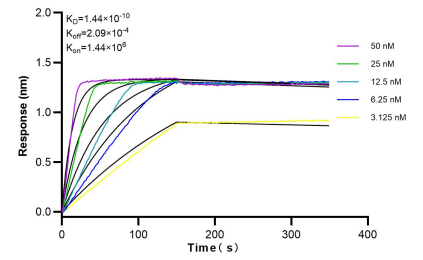
Selected Validation Data



1x10⁶ human PBMCs were intracellularly stained with 0.25 ug Anti-Human Granzyme B Rabbit Recombinant Antibody (98070-1-RR, Clone:240761G4) and PE-Conjugated 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).



1x10⁶ 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.