

For Research Use Only

Anti-Human Granzyme B Rabbit Recombinant Antibody

Catalog Number: 98070-1-RR



Basic Information

Catalog Number:

98070-1-RR

Concentration:

100ug, 1000 ug/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC030195

GeneID (NCBI):

3002

UNIPROT ID:

P10144

Full Name:

granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1)

Calculated MW:

247 aa, 28 kDa

Purification Method:

Protein A purification

CloneNo.:

240761G4

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 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. 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:

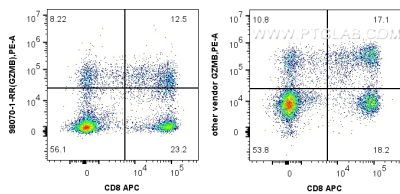
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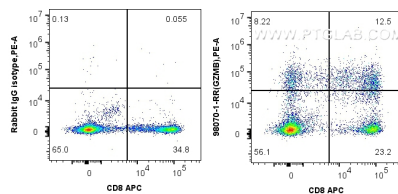
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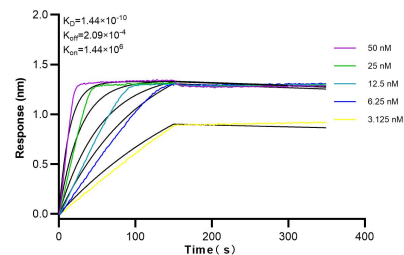
Selected Validation Data



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 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).



1x10⁶ human PBMCs were intracellularly stained with 0.25 ug Anti-Human Granzyme B Rabbit Recombinant Antibody (98070-1-RR, Clone:240761G4) or isotype control and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG. Cells were stained with APC Anti-Human CD8a before fixing. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



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