

For Research Use Only

Granzyme B Recombinant antibody

Catalog Number: 83763-5-RR



Basic Information

Catalog Number: 83763-5-RR	GenBank Accession Number: BC030195	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 3002	CloneNo.: 240761C6
Source: Rabbit	UNIPROT ID: P10144	Recommended Dilutions: WB 1:500-1:2000
Isotype: IgG	Full Name: granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1)	
	Calculated MW: 247 aa, 28 kDa	
	Observed MW: 33 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : NK-92 cells,
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

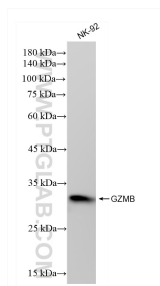
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

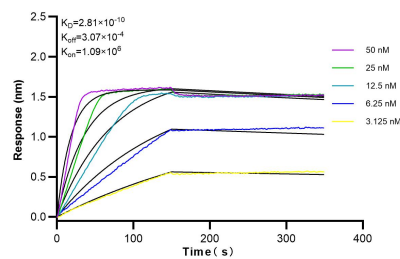
For technical support and original validation data for this product please contact:
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Selected Validation Data



NK-92 cells were subjected to SDS PAGE followed by western blot with 83763-5-RR (GZMB antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 83763-5-RR against Human Granzyme B were performed. The affinity constant is 0.281 nM.