## For Research Use Only

## Granzyme B Polyclonal antibody Catalog Number: 31521-1-AP

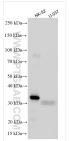


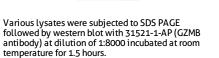
Basic Information	Catalog Number: 31521-1-AP	GenBank Accession Number: BC030195	Purification Method: Antigen affinity Purification			
	Size: 150ul, Concentration: 900 µg/ml by Nanodrop; Source: Rabbit Isotype: IgG	GeneID (NCBI): 3002 UNIPROT ID:	Recommended Dilutions: WB 1:2000-1:16000 IHC 1:500-1:2000			
				P10144		
				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:	Positive Cont
		WB, IHC, FC (Intra), ELISA	WB : NK-92 cells, U-937 cells			
		Species Specificity: human	IHC : human l		IHC : human lymphoma tissue, human tonsillitis tissu	
		Note-IHC: suggested antigen r TE buffer pH 9.0; (*) Alternativ retrieval may be performed w buffer pH 6.0	vely, antigen			
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	nuclei (PMID:8626751). GzmB also for Storage: Store at -20°C. Stable for one year aft Storage Buffer: PBS with 0.02% sodium azide and 50	rms dimers. er shipment. % glycerol pH 7.3.				
Storage *** 20ul sizes contain 0.1% BSA	nuclei (PMID:8626751). GzmB also for Storage: Store at -20°C. Stable for one year aft Storage Buffer:	rms dimers. er shipment. % glycerol pH 7.3.				
	nuclei (PMID:8626751). GzmB also for Storage: Store at -20°C. Stable for one year aft Storage Buffer: PBS with 0.02% sodium azide and 50	rms dimers. er shipment. % glycerol 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 E: proteintech@ptglab.com in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com

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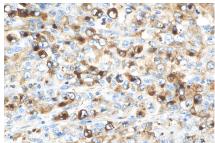
## Selected Validation Data



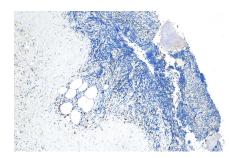




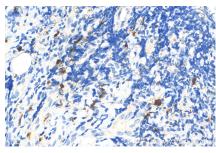
Immunohistochemical analysis of paraffinembedded human lymphoma tissue slide using 31521-1-AP (Granzyme B antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



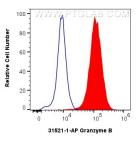
Immunohistochemical analysis of paraffinembedded human lymphoma tissue slide using 31521-1-AP (Granzyme B antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human tonsillitis tissue slide using 31521-1-AP (Granzyme B antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human tonsillitis tissue slide using 31521-1-AP (Granzyme B antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10^6 NK-92 cells were intracellularly stained with 0.25 ug Granzyme B Polyclonal antibody (31521-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).