

Granzyme B Polyclonal antibody

 Catalog Number: 13588-1-AP 27 Publications

Basic Information

Catalog Number: 13588-1-AP Size: 400 µg/ml Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG3883	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 Observed MW: 33 kDa	Purification Method: Antigen affinity purification Recommended Dilutions: WB 1:500-1:2000 IHC 1:50-1:500 IF 1:50-1:500
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Applications

Tested Applications:
FC, IF/ICC, IHC, WB, ELISA

Cited Applications:
WB, IF, IHC

Species Specificity:
human

Cited Species:
human, rat, mouse

Positive Controls:

WB : HL-60 cells,

IHC : human lymphoma tissue,

IF : HeLa cells,

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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.

Notable Publications

Author	Pubmed ID	Journal	Application
Haoyu Guo	36201949	Biomaterials	IHC
Lan Zhang	34586738	Clin Transl Med	IHC
Tianxiao Xu	34571002	J Invest Dermatol	IHC

Storage

Storage:

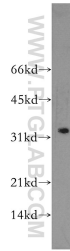
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

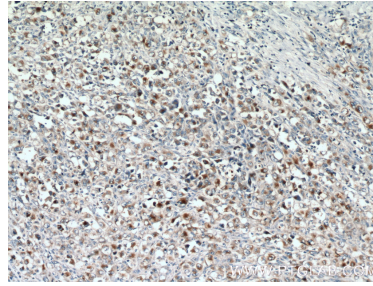
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

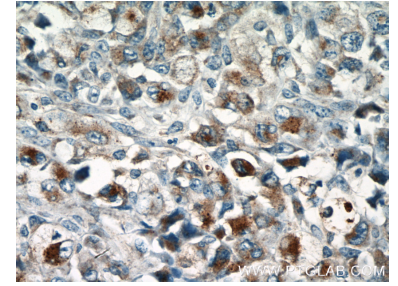
Selected Validation Data



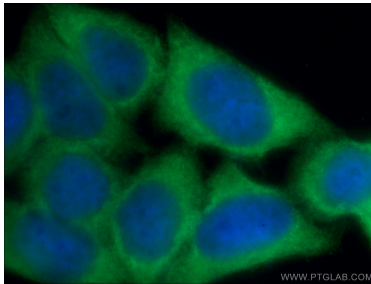
HL-60 cells were subjected to SDS PAGE followed by western blot with 13588-1-AP (GZMB antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



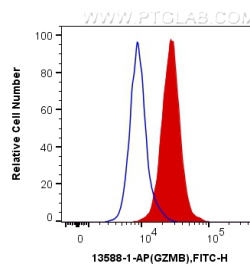
Immunohistochemical analysis of paraffin-embedded human lymphoma tissue slide using 13588-1-AP (GZMB antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lymphoma tissue slide using 13588-1-AP (GZMB antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 13588-1-AP (GZMB antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1×10^6 NK92 were intracellularly stained with 0.4 ug Anti-Human Granzyme B (13588-1-AP) (red), or 0.4 ug \times . Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).