

GZMB Polyclonal Antibody

Catalog number: 13588-1-AP

Size: 23 µg/150 µl

Source: Rabbit

Isotype: IgG

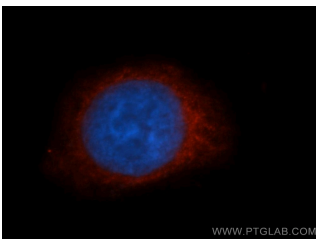
Synonyms:

GZMB; CCPI, CGL 1, CGL1, CSP

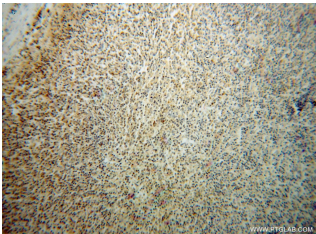
B, CSPB, CTLA1, CTSGL1,

Endogenous granzyme B,

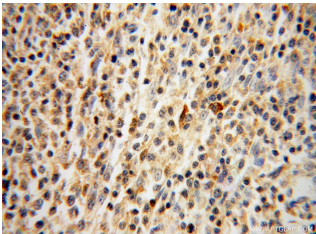
Granzyme B, GZMB, HLP, SECT



Immunofluorescent analysis of HeLa cells, using GZMB antibody 13588-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



Immunohistochemical of paraffin-embedded human lymphoma using 13588-1-AP (GZMB antibody) at dilution of 1:100 (under 10x lens)



Immunohistochemical of paraffin-embedded human lymphoma using 13588-1-AP (GZMB antibody) at dilution of 1:100 (under 40x lens)

Background

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 a high mannose glycosylated is 32 kDa and only 32 kDa or smaller forms of granzyme B are accumulated within nuclei (PMID:8626751).

Applications

Tested applications:	ELISA, WB, IHC, IF
Cited applications:	IF, WB
Species specificity:	Human; other species not tested.
Cited species:	Human
Calculated GZMB MW:	247aa, 28kd
Observed GZMB MW:	33kd
Positive WB detected in:	HL-60 cells
Positive IHC detected in:	Human lymphoma tissue
Positive IF detected in:	Hela cells
Recommended dilution:	WB: 1:500-1:5000
	IHC: 1:20-1:200
	IF: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag3883
GenBank accession number:	BC030195
Gene ID (NCBI):	3002
Full name:	Granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1)

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.