

For Research Use Only

APC-conjugated Granzyme B Polyclonal antibody

Catalog Number: APC-13588



Basic Information

Catalog Number: APC-13588	GenBank Accession Number: BC030195	Purification Method: Antigen affinity purification
Source: Rabbit	GeneID (NCBI): 3002	Recommended Dilutions: IF-P: 1:50-1:500
Isotype: IgG	UNIPROT ID: P10144	Excitation/Emission maxima wavelengths: 650 nm / 660 nm
Immunogen Catalog Number: AG3883	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: IF-P	Positive Controls: IF-P : human lung cancer tissue,
Species Specificity: human, mouse	

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 2-8°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 0.09% sodium azide and 0.5% BSA, pH7.3

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

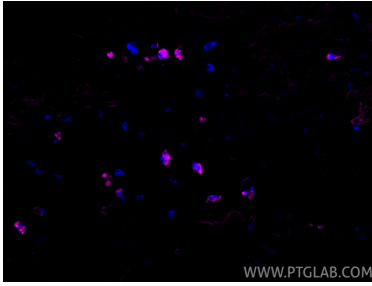
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Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human lung cancer tissue using APC Granzyme B antibody (APC-13588) at dilution of 1:200. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).