

Datasheet for ABIN1302451

## anti-GZMB antibody

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### Overview

Quantity:	0.1 mg
Target:	GZMB
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This GZMB antibody is un-conjugated
Application:	Flow Cytometry (FACS)

### Product Details

Immunogen:	Human NK cell line YT-INDY-derived granzyme B
Clone:	CLB-GB11
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody CLB-GB11 recognizes granzyme B, a 31 kDa serine protease expressed intracellularly in activated Tc cells and NK cells.
Cross-Reactivity (Details):	Human, Non-Human Primates
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

### Target Details

Target:	GZMB
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## Target Details

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Alternative Name:	Granzyme B ( <a href="#">GZMB Products</a> )
Background:	Granzyme B, Granzyme B is a serine protease that is expressed in cytoplasmic granules of cytotoxic T lymphocytes and NK cells. Vectorial secretion of perforin and granzymes is responsible for their granule-mediated cytotoxicity. Granzyme B plays a pivotal role in the induction of apoptosis in the target cells by activation of caspases. Moreover, granzyme B was reported to cleave directly alpha-tubulin, leading to perturbation of microtubule networks during the induced cell death., GZMB, HLP, CTLA1, SECT
Gene ID:	3002
UniProt:	<a href="#">P10144</a>
Pathways:	<a href="#">Apoptosis, Caspase Cascade in Apoptosis</a>

## Application Details

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Application Notes:	Flow cytometry: Recommended dilution: 1-4 µg/mL. Intracellular staining.
Restrictions:	For Research Use only

## Handling

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Concentration:	1 mg/mL
Buffer:	Tris buffered saline (TBS), pH 8.0, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	<b>Do not freeze.</b>
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

## Publications

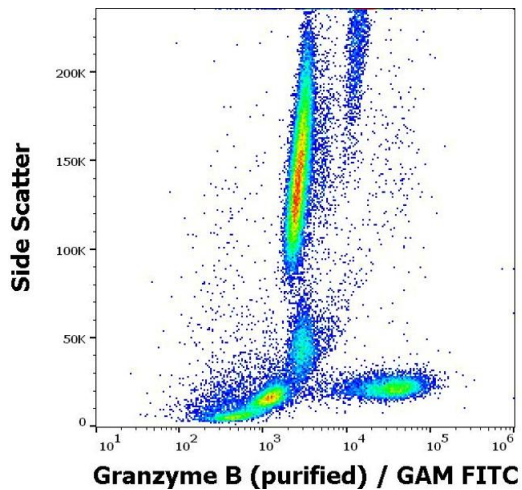
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Product cited in:	Rissoan, Duhén, Bridon, Bendriss-Vermare, Péronne, de Saint Vis, Brière, Bates: "Subtractive hybridization reveals the expression of immunoglobulin-like transcript 7, Eph-B1, granzyme B, and 3 novel transcripts in human plasmacytoid dendritic cells." in: <b>Blood</b> , Vol. 100, Issue 9, pp. 3295-303, (2002) ( <a href="#">PubMed</a> ).
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Tak, Spaeny-Dekking, Kraan, Breedveld, Froelich, Hack: "The levels of soluble granzyme A and B are elevated in plasma and synovial fluid of patients with rheumatoid arthritis (RA)." in: **Clinical and experimental immunology**, Vol. 116, Issue 2, pp. 366-70, (1999) ([PubMed](#)).

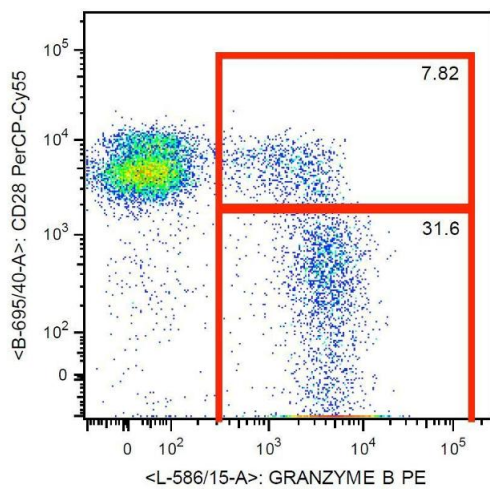
Spaeny-Dekking, Hanna, Wolbink, Wever, Kummer, Kummer, Swaak, Middeldorp, Huisman, Froelich, Hack: "Extracellular granzymes A and B in humans: detection of native species during CTL responses in vitro and in vivo." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 160, Issue 7, pp. 3610-6, (1998) ([PubMed](#)).

Images



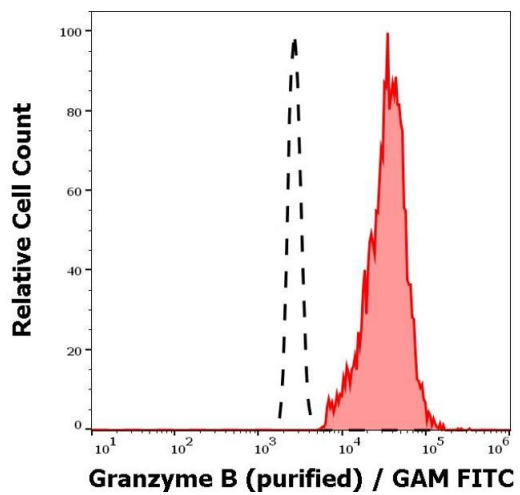
Flow Cytometry

**Image 1.** Flow cytometry intracellular staining pattern of human peripheral whole blood stained using anti-human Granzyme B (CLB-GB11) purified antibody (concentration in sample 3 µg/mL, GAM FITC).



Flow Cytometry

**Image 2.** Flow cytometry analysis of human CD8+ peripheral blood cells with anti-human granzyme B (CLB-GB11) PE.



### Flow Cytometry

**Image 3.** Separation of Granzyme B positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (intracellular staining) of human peripheral whole blood using anti-human Granzyme B (CLB-GB11) purified antibody (concentration in sample 3 µg/mL, GAM FITC).