Mouse Granzyme B Monoclonal Antibody | anti-GZMB antibody

Anti-Granzyme B FITC

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA129142	**Mouse**	**Non-human primates, Human**	**Flow Cytometry, Functional Assay**

PRODUCT SYNONYMS

Granzyme B; Monoclonal Antibody; Anti-Granzyme B FITC; GZMB; HLP; CTLA1; SECT; granzyme B; anti-GZMB antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Non-human primates, Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Number	CLB-GB11
Specificity	The mouse monoclonal antibody CLB-GB11 recognizes granzyme B, a 31kDa serine protease expressed intracellularly in activated Tc cells and NK cells.
Purity/Purification	The purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Form/Format	Stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide
Applicable Applications for anti-GZMB antibody	FCM/FACS (Flow Cytometry)
Conjugation	FITC
Immunogen	Human NK cell line YT-INDY-derived granzyme B
Preparation and Storage	Store in the dark at 2-8 degree C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.

ADDITIONAL INFORMATION

Related Product Information for anti-GZMB antibody	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.

References	*Tak PP, Spaeny-Dekking L, Kraan MC, Breedveld FC, Froelich CJ, Hack CE: The levels of soluble granzyme A and B are elevated in plasma and synovial fluid of patients with rheumatoid arthritis (RA). Clin Exp Immunol. 1999 May;116(2):366-70., URL: https://www.ncbi.nlm.nih.gov/pubmed/10337032,*Rissoan MC, Duhen T, Bridon JM, Bendriss-Vermare N, Péronne C, de Saint Vis B, Brière F, Bates EE: Subtractive hybridization reveals the expression of immunoglobulin-like transcript 7, Eph-B1, granzyme B, and 3 novel transcripts in human plasmacytoid dendritic cells. Blood. 2002 Nov 1;100(9):3295-303., URL: https://www.ncbi.nlm.nih.gov/pubmed/12384430,*Sun Y, Schmitz JE, Acierno PM, Santra S, Subbramanian RA, Barouch DH, Gorgone DA, Lifton MA, Beaudry KR, Manson K, Philippon V, Xu L, Maecker HT, Mascola JR, Panicali D, Nabel GJ, Letvin NL: DysFunctional Application (FUNC)tion of simian immunodeficiency virus/simian human immunodeficiency virus-induced IL-2 expression by central memory CD4+ T lymphocytes. J Immunol. 2005 Apr 15;174(8):4753-60., URL: https://www.ncbi.nlm.nih.gov/pubmed/15814700,*Spaeny-Dekking EH, Hanna WL, Wolbink AM, Wever PC, Kummer JA, Swaak AJ, Middeldorp JM, Huisman HG, Froelich CJ, Hack CE: Extracellular granzymes A and B in humans: detection of native species during CTL responses in vitro and in vivo. J Immunol. 1998 Apr 1;160(7):3610-6., URL: https://www.ncbi.nlm.nih.gov/pubmed/9531325 *Martin P, Pardo J, Schill N, Joeckel L, Berg M, Froelich CJ, Wallich R, Simon MM: Granzyme B-induced and caspase 3-dependent cleavage of gelsolin by mouse cytotoxic T cells modifies cytoskeleton dynamics. J Biol Chem. 2010 Apr 15. [Epub ahead of print], URL: https://www.ncbi.nlm.nih.gov/pubmed/20395300,*Kummer JA, Kamp AM, Tadema TM, Vos W, Meijer CJ, Hack CE: Localization and identification of granzymes A and B-expressing cells in normal human lymphoid tissue and peripheral blood. Clin Exp Immunol. 1995 Apr;100(1):164-72., URL: https://www.ncbi.nlm.nih.gov/pubmed/7697916,*Kummer JA, Wever PC, Kamp AM, ten Berge IJ, Hack CE, Weening JJ: Expression of granzyme A and B proteins by cytotoxic lymphocytes involved in acute renal allograft rejection. Kidney Int. 1995 Jan;47(1):70-7., URL: https://www.ncbi.nlm.nih.gov/pubmed/7731173

NCBI AND UNIPROT INFORMATION

NCBI GI #	221625528
NCBI GeneID	3002
NCBI Accession #	NP_004122.2
NCBI GenBank Nucleotide #	NM_004131.4
UniProt Accession #	P10144; Q8N1D2; Q9UCC1
Molecular Weight	27,716 Da
NCBI Official Full Name	granzyme B
NCBI Official Synonym Full Names	granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1)
NCBI Official Symbol	GZMB
NCBI Official Synonym Symbols	HLP; CCPI; CGL1; CSPB; SECT; CGL-1; CSP-B; CTLA1; CTSGL1
NCBI Protein Information	granzyme B; C11; CTLA-1; fragmentin 2; fragmentin-2; cathepsin G-like 1; human lymphocyte protein; T-cell serine protease 1-3E; cytotoxic serine protease B; cytotoxic T-lymphocyte proteinase 2
UniProt Protein Name	Granzyme B
UniProt Gene Name	**GZMB**
UniProt Synonym Gene Names	CGL1; CSPB; CTLA1; GRB; CTSGL1; Lymphocyte protease; HLP
UniProt Entry Name	GRAB_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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