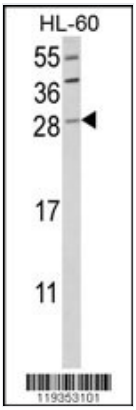
GZMB Antibody – Rabbit Polyclonal

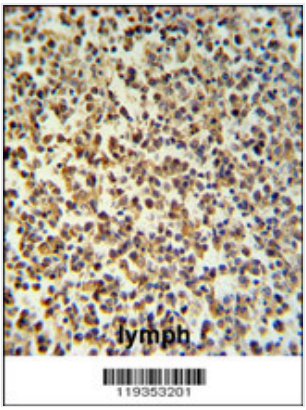
PRODUCT OVERVIEW

Product Name	GZMB, Polyclonal Antibody
Full Product Name	GZMB Antibody (C-term)
Product Gene Name	anti-GZMB antibody
Product Synonym Names	Granzyme B; C11; CTLA-1; Cathepsin G-like 1; CTSGL1; Cytotoxic T-lymphocyte proteinase 2; Lymphocyte protease; Fragmentin-2; Granzyme-2; Human lymphocyte protein; HLP; SECT; T-cell serine protease 1-3E; GZMB; CGL1; CSPB; CTLA1; GRB
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 2 (lot specific)
Specificity	This GZMB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 175-203 amino acids from the C-terminal region of human GZMB.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	GZMB peptide (MBS9226170) is used for blocking the activity of GZMB antibody (MBS9209305)
Molecular Weight	27716
Immunogen Sequence Positions	175-203
OMIM	123910
3D Structure	ModBase 3D Structure for P10144
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Product Categories/Family for anti-GZMB antibody	Cancer; Cell Biology; Immunology; Signal Transduction
Applications Tested/Suitable for anti-GZMB antibody	Western Blot (WB), ELISA (EIA), Immunohistochemistry (IHC), Flow Cytometry (FC/FACS)
Application Notes for anti-GZMB antibody	WB~~1:1000
Related Product Information for anti-GZMB antibody	Cytolytic T lymphocytes (CTL) and natural killer (NK) cells share the remarkable ability to recognize, bind, and lyse specific target cells. They are thought to protect their host by lysing cells bearing on their surface 'nonself' antigens, usually peptides or proteins resulting from infection by intracellular pathogens. The protein is crucial for the rapid induction of target cell apoptosis by CTL in cell-mediated immune response.

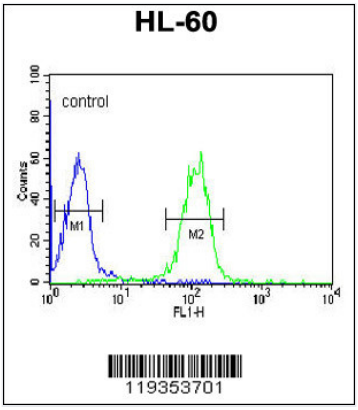
Product References and Citations for anti-GZMB antibody	Hagn,M., J. Immunol. 183 (3), 1838-1845 (2009) Gaafar,A., Exp. Hematol. 37 (7), 838-848 (2009) Girnita,D.M., Transplantation 87 (12), 1801-1806 (2009)
Other Notes	Small volumes of anti-GZMB antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GZMB purchase	MBS9209305 is an antibody targeting GZMB. Also known as GZMB Antibody (C-term). Reactive in Human. Host: Rabbit.



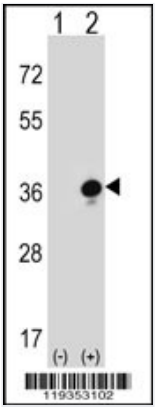
Western Blot (WB) of anti-GZMB antibody
Western blot analysis of GZMB Antibody (C-term) in HL-60 cell line lysates (35ug/lane). GZMB (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-GZMB antibody
GZMB Antibody (C-term) IHC analysis in formalin fixed and paraffin embedded human Lymph tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the GZMB Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-GZMB antibody
GZMB Antibody (C-term) flow cytometric analysis of HL-60 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Western Blot (WB) of anti-GZMB antibody
Western blot analysis of GZMB (arrow) using rabbit polyclonal GZMB Antibody (C-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the GZMB gene.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GZMB. It may not necessarily be applicable to this product.

NCBI GI #	221625528
NCBI GeneID	3002
NCBI Accession #	NP_004122.2
UniProt Primary Accession #	P10144
UniProt Secondary Accession #	Q8N1D2; Q9UCC1
UniProt Related Accession #	P10144

GenBank Nucleotide #	NM_004131.4
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
UniProt Protein Name	Granzyme B
UniProt Synonym Protein Names	C11; CTLA-1; Cathepsin G-like 1; CTSGL1; Cytotoxic T-lymphocyte proteinase 2; Lymphocyte protease; Fragmentin-2; Granzyme-2; Human lymphocyte protein; HLP; SECT; T-cell serine protease 1-3E
Protein Family	Granzyme
UniProt Gene Name	GZMB
UniProt Synonym Gene Names	CGL1; CSPB; CTLA1; GRB; CTSGL1; Lymphocyte protease; HLP
UniProt Entry Name	GRAB_HUMAN
NCBI Protein Information	granzyme B
NCBI Summary for GZMB	Cytolytic T lymphocytes (CTL) and natural killer (NK) cells share the remarkable ability to recognize, bind, and lyse specific target cells. They are thought to protect their host by lysing cells bearing on their surface 'nonself' antigens, usually peptides or proteins resulting from infection by intracellular pathogens. The protein encoded by this gene is crucial for the rapid induction of target cell apoptosis by CTL in cell-mediated immune response. [provided by RefSeq, Jul 2008]
UniProt Comments for GZMB	GZMB: This enzyme is necessary for target cell lysis in cell- mediated immune responses. It cleaves after Asp. Seems to be linked to an activation cascade of caspases (aspartate-specific cysteine proteases) responsible for apoptosis execution. Cleaves caspase-3, -7, -9 and 10 to give rise to active enzymes mediating apoptosis. By staphylococcal enterotoxin A (SEA) in peripheral blood leukocytes. Inactivated by the serine protease inhibitor diisopropylfluorophosphate. Belongs to the peptidase S1 family. Granzyme subfamily. Protein type: EC 3.4.21.79; Apoptosis; Protease Chromosomal Location of Human Ortholog: 14q11.2 Cellular Component: membrane; intracellular membrane-bound organelle; cytoplasm; immunological synapse; cytosol; nucleus Molecular Function: protein binding; serine-type peptidase activity; serine-type endopeptidase activity Biological Process: Notch signaling pathway; induction of apoptosis by granzyme; apoptosis; natural killer cell mediated cytotoxicity; cytolysis; protein processing; immune response; proteolysis
Research Articles on GZMB	**1.** CD4+ T cell-derived IL-21 and deprivation of CD40 signaling favor the in vivo development of granzyme B-expressing regulatory B cells in HIV patients.
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