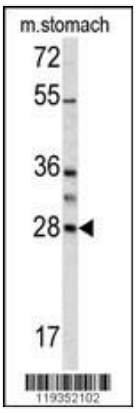
Granzyme B (GZMB) Antibody – Rabbit Polyclonal

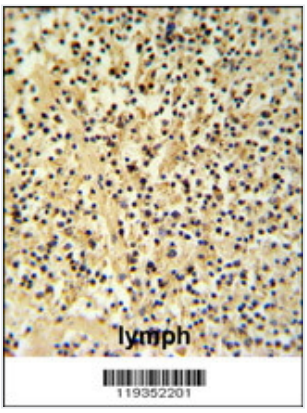
PRODUCT OVERVIEW

Product Name	Granzyme B (GZMB), Polyclonal Antibody
Full Product Name	Granzyme B, NT (GRB, GZMB, C11, Cathespin G-like 1, CCPI, CGL1, CGL-1, CSPB, CSP-B, CTLA1, CTLA-1, CTSGL1, Cytotoxic T Lymphocyte-associated Serine Esterase 1, Cytotoxic T Lymphocyte Proteinase 2, Fragmentin 2, Fragmentin-2, Granzyme 2, Human Lymphocyte P
Product Gene Name	anti-GZMB antibody
Product Synonym Names	EC=3.4.21.79; Granzyme-2; Cytotoxic Serine Protease B
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human GZMB. Species Crossreactivity: mouse.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	27.8kDa (248aa)
OMIM	123910
3D Structure	ModBase 3D Structure for P10144
Immunogen	Synthetic peptide selected from the N-terminal region of human GZMB (KLH).
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-GZMB antibody	Antibodies; Apoptosis
Applications Tested/Suitable for anti-GZMB antibody	Western Blot (WB), FLISA
Application Notes for anti-GZMB antibody	WB: 1:50-1:100 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-GZMB antibody	MBS6478911 is an antibody targeting GZMB. Also known as Granzyme B, NT (GRB, GZMB, C11, Cathespin G-like 1, CCPI, CGL1, CGL-1, CSPB, CSP-B, CTLA1, CTLA-1, CTSGL1, Cytotoxic T Lymphocyte-associated Serine Esterase 1, Cytotoxic T Lymphocyte Proteinase 2, Fragmentin 2, Fragmentin-2, Granzyme 2, Human Lymphocyte P. Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-GZMB antibody	1. Hagn, M., J. Immunol. 183(3), 1838-1845 (2009). 2. Gaafar, A., Exp. Hematol. 37(7), 838-848 (2009). 3. Girnita, D.M., Transplantation 87(12), 1801-1806 (2009).

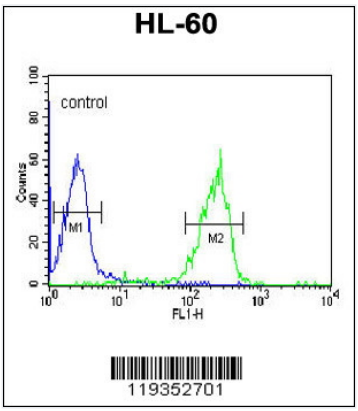
Other Notes	Small volumes of anti-GZMB antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



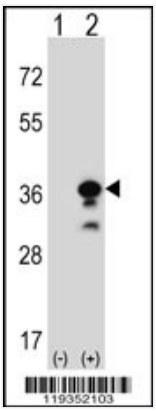
Western Blot (WB) of anti-GZMB antibody
Western blot analysis of GZMB antibody (N-term) in mouse stomach lysates (35ug/lane). GZMB (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-GZMB antibody
GZMB Antibody (N-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 (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-GZMB antibody
GZMB Antibody (N-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 (N-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
UniProt Primary Accession #	P10144
UniProt Secondary Accession #	Q8N1D2; Q9UCC1
UniProt Related Accession #	P10144
GenBank Nucleotide #	NM_004131.5
NCBI Official Full Name	granzyme B isoform 1 preproprotein
NCBI Official Synonym Full Names	granzyme B
NCBI Official Symbol	GZMB

NCBI Official Synonym Symbols	C11; 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	This gene encodes a member of the granzyme subfamily of proteins, part of the peptidase S1 family of serine proteases. The encoded preproprotein is secreted by natural killer (NK) cells and cytotoxic T lymphocytes (CTLs) and proteolytically processed to generate the active protease, which induces target cell apoptosis. This protein also processes cytokines and degrades extracellular matrix proteins, and these roles are implicated in chronic inflammation and wound healing. Expression of this gene may be elevated in human patients with cardiac fibrosis. [provided by RefSeq, Sep 2016]
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: intracellular membrane-bound organelle; membrane; cytoplasm; immunological synapse; nucleus; cytosol 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.** Granzyme B breaches the inner membrane through Tim22, the metabolite carrier translocase pore, in a mitochondrial heat-shock protein 70-dependent manner.
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