

**GZMB Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP6575A****Specification**

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**GZMB Antibody (N-term) - Product Information**

Application	IHC-P, FC,E
Primary Accession	<a href="#">P10144</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	2-32

**GZMB Antibody (N-term) - Additional Information****Gene ID** 3002**Other Names**

Granzyme B, C11, CTLA-1, Cathepsin G-like 1, CTSL1, 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

**Target/Specificity**

This GZMB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 2-32 amino acids from the N-terminal region of human GZMB.

**Dilution**

IHC-P~~1:50~100

FC~~1:10~50

**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.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

GZMB Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**GZMB Antibody (N-term) - Protein Information****Name** GZMB {ECO:0000303|PubMed:32188940, ECO:0000312|HGNC:HGNC:4709}**Function** Abundant protease in the cytosolic granules of cytotoxic T- cells and NK-cells which

activates caspase-independent pyroptosis when delivered into the target cell through the immunological synapse (PubMed:[1985927](#), PubMed:[3262682](#), PubMed:[3263427](#)). It cleaves after Asp (PubMed:[1985927](#), PubMed:[8258716](#)). Once delivered into the target cell, acts by catalyzing cleavage of gasdermin-E (GSDME), releasing the pore- forming moiety of GSDME, thereby triggering pyroptosis and target cell death (PubMed:[31953257](#), PubMed:[32188940](#)). Seems to be linked to an activation cascade of caspases (aspartate-specific cysteine proteases) responsible for apoptosis execution. Cleaves caspase-3, -9 and -10 (CASP3, CASP9 and CASP10, respectively) to give rise to active enzymes mediating apoptosis (PubMed:[9852092](#)). Cleaves and activates CASP7 in response to bacterial infection, promoting plasma membrane repair (By similarity).

#### Cellular Location

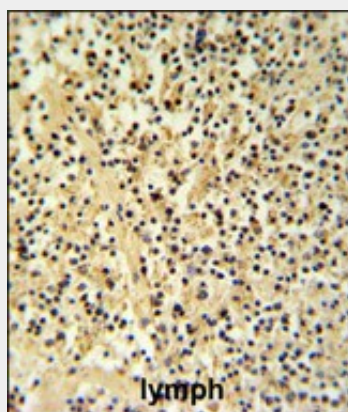
Secreted. Cytolytic granule. Note=Delivered into the target cell by perforin (PubMed:20038786).

#### GZMB Antibody (N-term) - Protocols

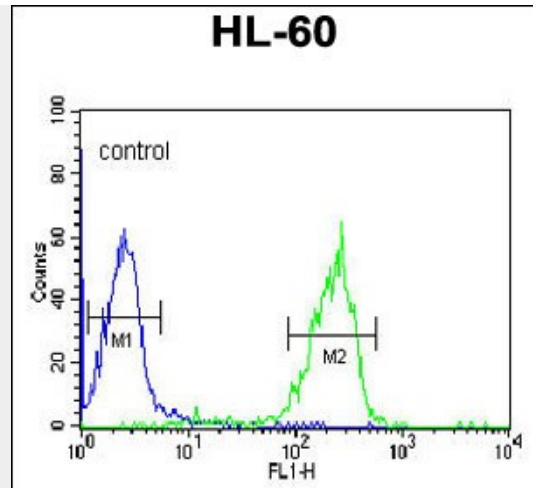
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### GZMB Antibody (N-term) - Images



GZMB Antibody (N-term) (Cat. #AP6575a) 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.



GZMB Antibody (N-term) (Cat. #AP6575a) 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.

#### **GZMB Antibody (N-term) - Background**

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.

#### **GZMB Antibody (N-term) - References**

Hagn, M., J. Immunol. 183 (3), 1838-1845 (2009)  
Gaafar, A., Exp. Hematol. 37 (7), 838-848 (2009)  
Girnit, D. M., Transplantation 87 (12), 1801-1806 (2009)