

Rabbit anti-Human, mouse GZMB Polyclonal Antibody | anti-GZMB antibody

GZMB Antibody (N-term)

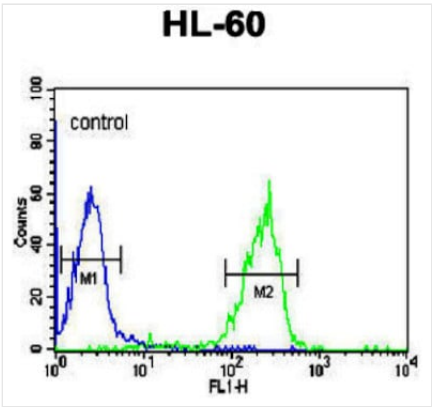
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA289186	Rabbit	Human, mouse	Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

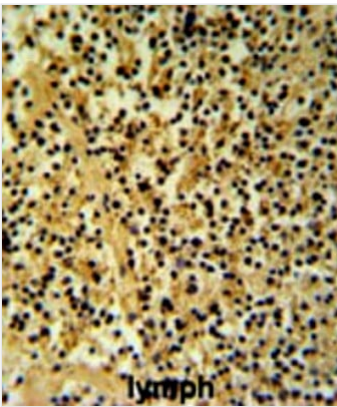
GZMB; Polyclonal Antibody; GZMB Antibody (N-term); Granzyme B; C11; CTLA-1; Cathepsin G-like 1; CTSG1; Cytotoxic T-lymphocyte proteinase 2; Lymphocyte protease; Fragmentin-2; Granzyme-2; Human lymphocyte protein; HLP; SECT; T-cell serine protease 1-3E; CGL1; CSPB; CTLA1; GRB; anti-GZMB antibody

PRODUCT SPECIFICATIONS

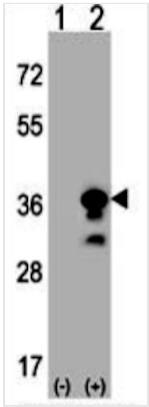
Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This GZMB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 2-32 amino acids from the N-terminal region of human GZMB.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
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.
Sequence Positions	2-32
Sequence Length	247
Applicable Applications for anti-GZMB antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
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:3262682, PubMed:3263427, PubMed:1985927). It cleaves after Asp (PubMed:8258716, PubMed:1985927). 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:32188940, PubMed:31953257). 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 (PubMed:9852092).
Cellular Location	Secreted. Cytolytic granule. Note=Delivered into the target cell by perforin (PubMed:20038786).
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



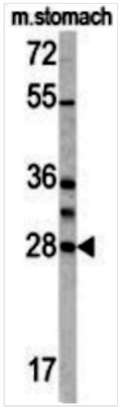
FCM/FACS (Flow Cytometry)
GZMB Antibody (N-term) flow cytometric analysis of HL-60 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohistochemisry)
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.



WB (Western Blot)
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.



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

ADDITIONAL INFORMATION

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 Categories/Family for anti-GZMB antibody	Cancer; Cell Biology; Immunology; Signal Transduction
References	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)

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	27716
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; CTSG1
NCBI Protein Information	granzyme B
UniProt Protein Name	Granzyme B
UniProt Gene Name	GZMB
UniProt Synonym Gene Names	CGL1; CSPB; CTLA1; GRB; CTSG1; 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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Online datasheet: <https://stage.aaabiotech.com/polyclonal/gzmb-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/289186>