

Rabbit anti-Human Granzyme B Polyclonal Antibody | anti-GZMB antibody

Granzyme B

CATALOG # AAA59221	HOST Rabbit	REACTIVITY Human
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PRODUCT SYNONYMS

Granzyme B; Polyclonal Antibody; anti-GZMB antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Form/Format	Granzyme B is a purified immunoglobulin fraction of rabbit antiserum that is filter sterilized and diluted in buffer pH 7.5, containing BSA and sodium azide as a preservative.
Control	Tonsil, Lymph Node
Localization	Cytoplasmic (Granular)
Immunogen	Synthetic peptide corresponding to residues E(20) IIGGHEAKPHSRPYMAYL (38) of human Granzyme B.
Reactivity Note	Paraffin, Frozen
Precautions	1.- For professional users only. Ensure results are interpreted by a medical professional. 2.- This product contains sodium azide (NaN_3), a toxic chemical which may react with this plumbing to form highly explosive build-ups of metal azides. Upon disposal, flush with large volumes of water to prevent sodium azide build-up. 3.- Ensure proper handling procedures are used with reagent. Always wear proper laboratory equipment such as laboratory coat and gloves when handling reagents. 4.- Unused solution should be disposed of according to local and federal regulations. 5.- Do not ingest reagent. If reagent ingested, contact poison control center immediately. 6.- For complete recommendations for handling biological specimens please refer to the CDC document, "Guidelines for Safe Work Practices in Human and Animal Laboratories".

Staining Procedure

1. Cut and mount 3-5 micron formalin-fixed paraffin-embedded tissues on positive charged slides such as Hydrophilic Plus Slides
2. Air dry for 2 hours at 58° C.
3. Deparaffinize, dehydrate and rehydrate tissues.
4. Subject tissues to heat epitope retrieval using a suitable retrieval solution such as ImmunoDNA Retriever with Citrate .
5. Any of three heating methods may be used:
 - a. TintoRetriever r Pressure Cooker or Equivalent**
Place tissues/slides in a staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate or EDTA, and place in the pressure cooker. Add 1-2 inches of distilled water to the pressure cooker and turn heat to high. Incubate for 15 minutes. Open and immediately transfer slides to room temperature.
 - b. TintoRetriever PT Module or Water Bath Method**
Place tissues/slides in a pre-warmed staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate or EDTA at 95°-99° C. Incubate for 30-60 minutes.
 - c. Conventional Steamer Method**
Place tissues/slides in a pre-warmed staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate or EDTA in a Steamer, cover and steam for 30-60 minutes.
6. After heat treatment, transfer slides in ImmunoDNA Retriever with Citrate or EDTA to room temperature and let stand for 15-20 minutes.
7. For manual staining, perform antibody incubation at ambient temperature. For automated staining methods, perform antibody incubation according to instrument manufacturer's instructions.
8. Wash slides with IHC wash buffer or DI water.
9. Continue IHC staining protocol

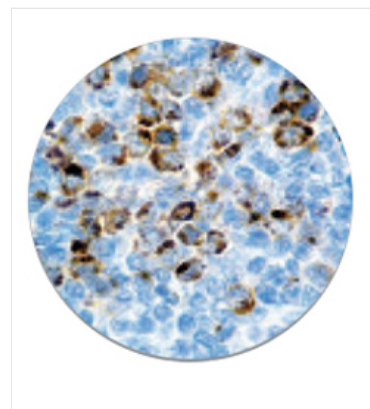
Preparation and Storage

Store at 2-8°C. Do not use after expiration date listed on package label. Temperature fluctuations should be avoided. Store appropriately when not use, and avoid prolonged exposure to room temperature conditions.

IMAGES

Recommended IHC Protocol			
Step	ImmunoDetector AP/HRP	PolyDetector AP/HRP	PolyDetector Plus HRP
Peroxidase/AP Blocker	5 min.	5 min.	5 min
Primary Antibody	30-60 min.	30-60 min.	30-60 min.
1st Step Detection	10 min.	30-45 min.	15 min.
2nd Step Detection	10 min.	Not Applicable	15 min.
Substrate-Chromogen	5-10 min.	5-10 min.	5-10 min.
Counterstain	Varies	Varies	Varies

IHC (Immunohistochemistry)



IHC (Immunohistochemistry)

Antibody Type	Dilution	Volume/Qty
Tinto Prediluted	Ready-to-Use	3.0 mL
Tinto Prediluted	Ready-to-Use	7.0 mL
Tinto Prediluted	Ready-to-Use	15.0 mL
Concentrated	1:50 - 1:200	0.1 mL
Concentrated	1:50 - 1:200	0.5 mL
Concentrated	1:50 - 1:200	1.0 mL
Control Slides	Not Applicable	5 slides

Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-GZMB antibody	Granzymes are exogenous serine proteases that are released by cytoplasmic granules within cytotoxic T-cells and natural killer cells. Their purpose is to induce apoptosis within virus-infected cells, thus destroying them. Anti-Granzyme B antibodies have been useful in identifying Natural Killer/T-cell Lymphoma, as well as Anaplastic Large Cell Lymphoma. High percentages of cytotoxic T-cells have been shown to be an unfavorable prognostic indicator in Hodgkin's Disease.
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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; Q67BC3; Q6XGZ2; Q6XGZ3; Q6XGZ4
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; CTSL1
NCBI Protein Information	granzyme B; C11; CTLA-1; fragmentin 2; fragmentin-2; OTTHUMP00000178755; OTTHUMP00000228682; 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
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.