



Granzyme B Polyclonal Antibody

Catalog No	YP-Ab-10805
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	GZMB CGL1 CSPB CTLA1 GRB
Immunogen	Synthesized peptide derived from human Granzyme B Polyclonal AA range: 81-130
Specificity	This antibody detects endogenous levels of Granzyme B.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	IHC-p: 100-300.WB 1:500-2000, ELISA 1:10000-20000. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Granzyme B;GZMB CGL1 CSPB CTLA1 GRB;Granzyme B (EC 3.4.21.79) (C11) (CTLA-1) (Cathepsin G-like 1) (CTSG1) (Cytotoxic T-lymphocyte proteinase 2) (Lymphocyte protease) (Fragmentin-2) (Granzyme-2) (Human lymphocyte protein) (HLP) (SECT) (;Granzyme B (EC 3.4.21.79;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)
Observed Band	38kD
Calculated Molecular Weight	38kD
Cell Pathway	Secreted . Cytolytic granule . Delivered into the target cell by perforin (PubMed:20038786). .
Tissue Specificity	Breast carcinoma, Large granular lymphocyte leukemia, Pancreas,
Function	catalytic activity: Preferential cleavage: -Asp- -Xaa- >> -Asn- -Xaa- > -Met- -Xaa-, -Ser- -Xaa-., function: 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.,induction:By staphylococcal enterotoxin A (SEA) in peripheral blood leukocytes.,similarity:Belongs to the peptidase S1 family.,similarity:Belongs to the peptidase S1 family. Granzyme subfamily.,similarity:Contains 1 peptidase S1 domain.,subcellular location:Cytoplasmic granules of cytolytic T-lymphocytes and natural killer cells.,

Background

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],

matters needing attention

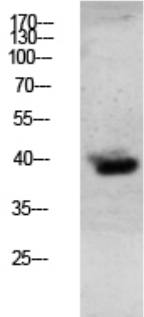
Avoid repeated freezing and thawing!

Usage suggestions

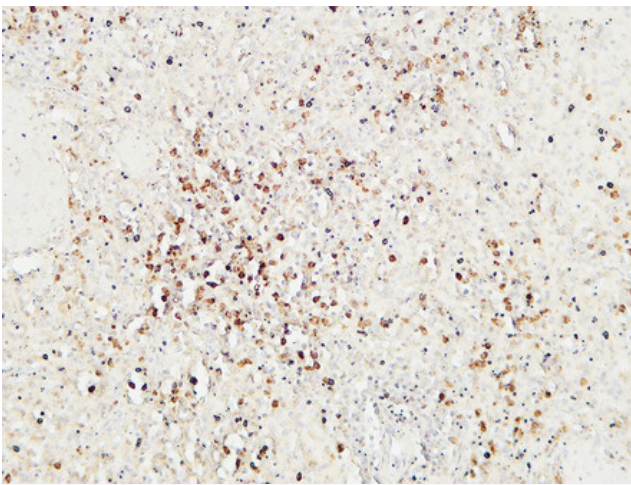
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



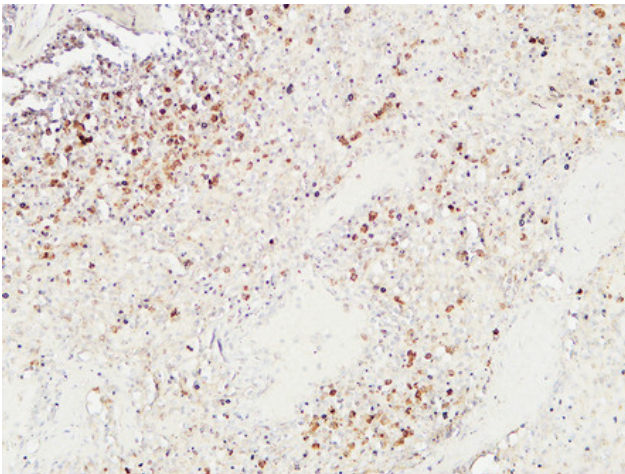
Products Images



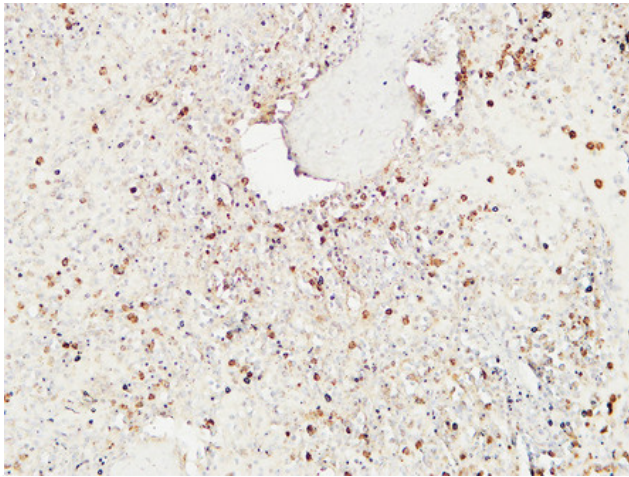
Western blot analysis of mouse-lung lysate, antibody was diluted at 1000. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded Human spleen. 1, Antibody was diluted at 1:200(4° overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200(room temperature, 30min).



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