

**Granzyme B Antibody**  
Rabbit mAb  
Catalog # AP91225

## Specification

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### Granzyme B Antibody - Product Information

Application IHC, ICC, IP  
Primary Accession [P10144](#)  
Clonality Monoclonal

#### Other Names

Granzyme B; Cathepsin G-like 1; CTSL1; Lymphocyte protease; Fragmentin-2; Granzyme-2; Human lymphocyte protein; SECT; GZMB; CGL1; CSPB; CTLA1, GRB;

Isotype Rabbit IgG  
Host Rabbit  
Calculated MW 27716 Da

### Granzyme B Antibody - Additional Information

Purification Affinity-chromatography  
Immunogen A synthesized peptide derived from human Granzyme B  
Description 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.  
Storage Condition and Buffer Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

### Granzyme B Antibody - 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](http://www.uniprot.org/citations/1985927), PubMed: [3262682](http://www.uniprot.org/citations/3262682), PubMed: [3263427](http://www.uniprot.org/citations/3263427)). It cleaves after Asp (PubMed: [1985927](http://www.uniprot.org/citations/1985927), PubMed: [1985927](http://www.uniprot.org/citations/1985927), PubMed: [1985927](http://www.uniprot.org/citations/1985927)).

[8258716](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/31953257), PubMed:[32188940](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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).

**Granzyme B Antibody - 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](#)

**Granzyme B Antibody - Images**