

# Granzyme B Antibody

Rabbit mAb

Catalog # AP91225

## Product Information

<b>Application</b>	IHC, IF, ICC, IP, IHF
<b>Primary Accession</b>	<a href="#">P10144</a>
<b>Reactivity</b>	Human
<b>Clonality</b>	Monoclonal
<b>Other Names</b>	Granzyme B; Cathepsin G-like 1; CTSL1; Lymphocyte protease; Fragmentin-2; Granzyme-2; Human lymphocyte protein; SECT; GZMB; CGL1; CSPB; CTLA1, GRB;
<b>Isotype</b>	Rabbit IgG
<b>Host</b>	Rabbit
<b>Calculated MW</b>	27716

## Additional Information

<b>Dilution</b>	IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:50
<b>Purification</b>	Affinity-chromatography
<b>Immunogen</b>	A synthesized peptide derived from human Granzyme B
<b>Description</b>	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.
<b>Storage Condition and Buffer</b>	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.

## Protein Information

<b>Name</b>	GZMB {ECO:0000303   PubMed:32188940, ECO:0000312   HGNC:HGNC:4709}
<b>Function</b>	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: <a href="#">1985927</a> , PubMed: <a href="#">3262682</a> , PubMed: <a href="#">3263427</a> ). It cleaves after Asp (PubMed: <a href="#">1985927</a> , PubMed: <a href="#">8258716</a> ). 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: <a href="#">31953257</a> , PubMed: <a href="#">32188940</a> ). 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: <a href="#">9852092</a> ). 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).

**Images**

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Image not found : 202311/AP91225-IHC.jpg

Immunohistochemical analysis of paraffin-embedded human T cell lymphoma, using Granzyme B Antibody.

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