

Anti-Granzyme B/H Antibody
Catalog # AP53677

Specification

Anti-Granzyme B/H Antibody - Product Information

Application	WB
Primary Accession	P10144
Other Accession	P20718
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	27716

Anti-Granzyme B/H Antibody - Additional Information

Gene ID 3002

Other Names

GZMB; CGL1; CSPB; CTLA1; GRB; 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; GZMH; CGL2; CTSG2; Granzyme H; CCP-X; Cathepsin G-like 2; CTSG2; Cytotoxic T-lymphocyte proteinase; Cytotoxic serine protease C; CSP-C

Target/Specificity

Recognizes endogenous levels of Granzyme B/H protein.

Dilution

WB~~1/500 - 1/1000

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Anti-Granzyme B/H 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) target="_blank">1985927, PubMed: [3262682](http://www.uniprot.org/citations/3262682) target="_blank">3262682, PubMed: [3263427](http://www.uniprot.org/citations/3263427) target="_blank">3263427). It cleaves after Asp (PubMed: [3263427](#) target="_blank">3263427).

<http://www.uniprot.org/citations/1985927> target="_blank">1985927, PubMed: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, PubMed: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). Cleaves and activates CASP7 in response to bacterial infection, promoting plasma membrane repair (By similarity).

Cellular Location

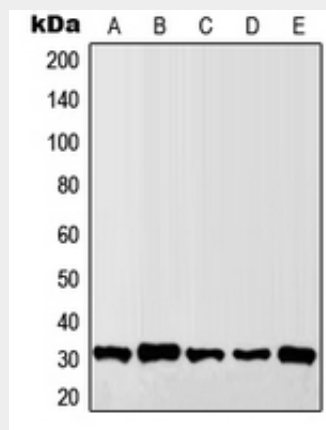
Secreted. Cytolytic granule. Note=Delivered into the target cell by perforin (PubMed:20038786).

Anti-Granzyme B/H Antibody - Protocols

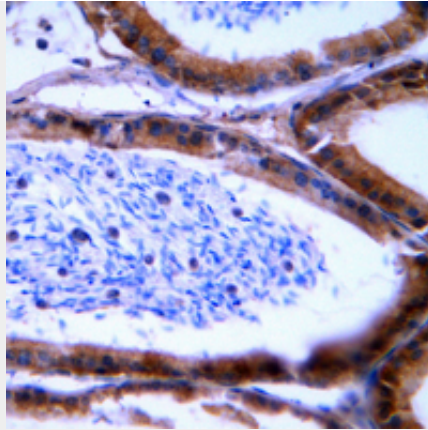
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Granzyme B/H Antibody - Images



Western blot analysis of Granzyme B/H expression in MCF7 (A), Raw264.7 (B), SP2/0 (C), H9C2 (D), HL60 (E) whole cell lysates.



Immunohistochemical analysis of Granzyme B/H staining in human tonsil formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Anti-Granzyme B/H Antibody - Background

Rabbit polyclonal antibody to Granzyme B/H