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Granzyme B Blocking Peptide
Catalog # PBV10029b

Specification

Granzyme B Blocking Peptide - Product Information

Primary Accession	P10144
Other Accession	NP_004122
Gene ID	3002
Calculated MW	27716

Granzyme B Blocking Peptide - Additional Information

Gene ID 3002

Application & Usage	**The peptide is used for blocking the antibody activity of Granzyme B. It usually blocks the antibody activity completely in Western blot analysis by incubating the peptide with equal volume of antibody for 30-60 minutes at 37°C.**

Other Names
Granzyme B, 3.4.21.79, C11, CTLA-1, Cathepsin G-like 1, CTSGL1, Cytotoxic T-lymphocyte proteinase 2, Lymphocyte protease, Fragmentin-2, Granzyme-2, Human lymphocyte protein, HLP, SECT, T-cell serine protease 1-3E, GZMB, CGL1, CSPB, CTLA1, GRB

Target/Specificity
Granzyme B

Formulation
50 µg (0.5 mg/ml) in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA and 0.02% thimerosal.

Reconstitution & Storage
-20 °C

Background Descriptions

Precautions
Granzyme B Blocking Peptide is for research use only and not for use in diagnostic or therapeutic procedures.

Granzyme B Blocking Peptide - 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:3262682, PubMed:3263427, PubMed:1985927). It cleaves after Asp (PubMed:8258716, PubMed:1985927). 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:32188940, PubMed:31953257). 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).

Granzyme B Blocking Peptide - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Granzyme B Blocking Peptide - Images