

Granzyme B antibody

Mouse Monoclonal Antibody (Mab) Catalog # AD80535

Product Information

Application IHC
Primary Accession P10144
Reactivity Human
Host Mouse
Clonality Monoclonal
Clone Names 006K2O5
Calculated MW 27716

Additional Information

Gene ID 3002

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 {ECO:0000303|PubMed:32188940, ECO:0000312|HGNC:4709}

Dilution IHC~~1:100~500

Storage Maintain refrigerated at 2-8°C.

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,

PubMed:3262682, PubMed:3263427). It cleaves after Asp (PubMed: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).

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