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# Granzyme B antibody

Mouse Monoclonal Antibody (Mab)
Catalog # AD80535

## Product Information

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

## Additional Information

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|---|---|
| **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:HGNC:4709} |
| **Dilution** | IHC~~1:100~500 |
| **Storage** | Maintain refrigerated at 2-8°C. |

## Protein Information

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|---|---|
| **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). |