

PRODUCT DATA SHEET

Product: Anti-Granzyme B mAb, clone B18.1

Cat. No.: MC-222 (100 µg)

Page 1 of 2

Background:

Granzyme B is a 27 kDa serine protease stored in granules of activated cytotoxic T cells and NK cells. Upon target cell contact, granzyme B is directionally exocytosed and, assisted by perforin, enters the target cell. In the target, granzyme B processes and activates various pro-caspases, inducing apoptosis in the target cell.

Specificity:

Recognizes human granzyme B.

Positive Control:

Human CD8+ T cells.

Species Reactivity:

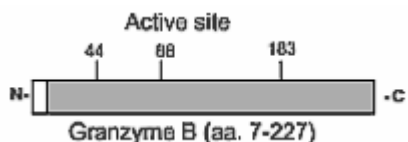
Human. Others not tested.

Ig Isotype:

Mouse IgG₁

Immunogen:

Recombinant human granzyme B (aa 7-227)



Format:

100 µg of liquid purified monoclonal antibody at 1 mg/mL in PBS with 0.02% sodium azide.

Purity:

≥95% as determined by SDS-PAGE.

Storage:

Store at 4°C. Do not freeze.

Applications and Suggested Dilutions:

- Flow cytometry
- Immunocytochemistry
- Immunoprecipitation
- Immunohistochemistry: (frozen sections and paraffin sections)
- Western blot: Suggested dilution of 1 µg/mL

The optimal dilution for a specific application should be determined by the researcher.

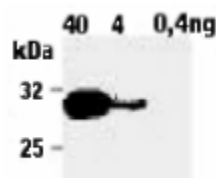


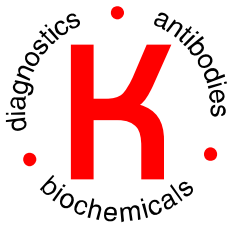
Figure A: Detection of recombinant granzyme B. Granzyme B migrates as a 27 kDa species.

Method: Recombinant granzyme B was resolved by SDS-PAGE under reducing conditions, transferred to nitrocellulose and probed with the monoclonal anti-granzyme B antibody B18.1 at 1 µg/mL. Proteins were visualized using a peroxidase-conjugated antibody to mouse IgG and a chemiluminescence detection system.



Figure B: Detection of granzyme B in a human CD8+ T cell clone.

Method: Human T cells were plated onto polylysine treated glass slides, fixed and permeabilized in methanol at -20°C for 5 min., then in acetone at -20°C for 30 seconds. After 3 washes in PBS, 0.1% BSA, slides were incubated for 1 hour at room temperature (RT) with 20 µg/mL of clone B18.4 antibody in PBS, 0.1% BSA. After rinsing in PBS, a FITC-conjugated anti-mouse IgG was added for 30 min., slides washed again in PBS and visualized using a fluorescence microscope.



PRODUCT DATA SHEET

Cat. No.: MC-222 (100 µg)

Page 2 of 2

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.