



CERTIFICATE OF ANALYSIS

PRODUCT: MAb to Granzyme B (human)(B18.1)

PRODUCT NUMBER: G-1059

LOT NUMBER: B1218

CLONE: B18.1

PURITY: $\geq 95\%$ (SDS-PAGE)

IMMUNOGEN: Recombinant human granzyme B (aa 7-227).

SPECIFICITY: Recognizes human granzyme B.

ISOTYPE: Mouse IgG1

CONCENTRATION: 1 mg/ml

FORMULATION: Liquid. Purified antibody in PBS containing 0.02% sodium azide.

APPLICATIONS:

B18.1:
Flow Cytometry
Immunocytochemistry
Immunohistochemistry (Frozen sections, paraffin sections)
Immunoprecipitation
Western Blot

B18.1-FITC:
Flow Cytometry
Immunocytochemistry
Immunohistochemistry (Frozen sections, paraffin sections)

BACKGROUND/ TECHNICAL DATA:

FITC-conjugated antibody: 1 test means: 1 μ l of a 0.1mg/ml stock solution were used to stain 200,000 cells in a sample volume of 50 μ l.

IMAGES:



IMAGE A

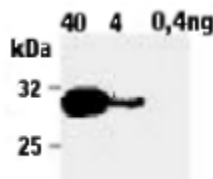


IMAGE B

Figure: 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 μ g/ml. Proteins were visualized using a peroxidase-conjugated antibody to mouse IgG (SBA) and a chemiluminescence detection system.



IMAGE C

Figure: 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 $^{\circ}$ C for 5 min, then in acetone at -20 $^{\circ}$ C for 30 sec. After 3 washes in PBS, 0.1% BSA, slides were incubated for 1 hr at room temperature (RT) with 20 μ g/ml of 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.



Figure: Detection of granzyme B in permeabilized human CD8+ T lymphocytes (filled profile). Isotype control in combination with a secondary FITC-labeled antibody is shown as control.

Method: Permeabilized human T cells (5×10^5) were incubated on ice for 30 min in 50 μ l FACS buffer (PBS, 5% Fetal calf serum, 0.02% azide) containing 1 μ g of FITC- labelled B18.1 antibody. After washing in FACS buffer, cells were analyzed by flow cytometry.

STORAGE & HANDLING: Store at +4°C. Stable for at least 6 months when stored at +4°C undiluted. Do not freeze/thaw.

CAUTION: For research use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified: KT