

PRODUCT DATA SHEET

Product: Anti-Perforin mAb, clone CB5.4

Cat. No.: MC-521 (100 µg)

Specificity:

Recognizes mouse perforin (epitope in the region aa 402-534).

Species Reactivity:

Mouse. Others not tested.

Ig Isotype:

Rat IgG_{2a}

Immunogen:

Recombinant mouse perforin (aa 98-534).



Format:

100 µg of liquid purified monoclonal antibody at 1 mg/mL in PBS containing 0.02% sodium azide. Purified from ascites.

Storage:

Store at 4°C short term. Store at -20°C long term. Aliquot to avoid freeze/thaw cycles.

Applications:

- Immunocytochemistry
- Immunohistochemistry: (frozen & paraffin sections)
- Immunoprecipitation
- Western blot

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

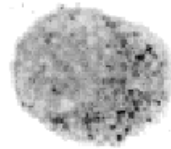


Figure 1: Detection of perforin in an individual mouse T cell. Perforin is located in cytoplasmic granules.

Method: A mouse T cell clone was 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 sec. After 3 washings in PBS, 0.1% BSA, slides were incubated with 5 µg/mL of CB5.4 antibody, washed in PBS, incubated in anti-rat IgG-HRP, washed in PBS, and developed in appropriate substrate solution (DAB or AEC).

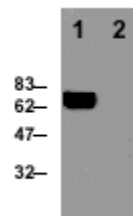


Figure 2: Detection of perforin in the mouse T cell clone B6.1 (lane 1). Absence of perforin in the mouse fibroblast cell line NIH.3T3 (lane 2). The protein migrates as a 66 kDa species.

Method: Cell extracts from the T cell clone B6.1 (2×10^6) were resolved by SDS-PAGE under reducing conditions, transferred to nitrocellulose and probed with the CB5.4 antibody at 1 µg/mL. Proteins were visualized using a peroxidase-conjugated antibody to rat IgG and a chemiluminescence detection system.

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.