

## **Human Granzyme B Clone GrB-7 Cat. no. MON 7029**

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### **Specificity**

The monoclonal antibody reacts with the 33 kD human serine protease granzyme B. It does not react with human granzyme A. It is used as a marker for NK-cells and activated cytotoxic T-cells (CTL). This protease is localized in cytoplasmic granules and gives a granular staining pattern. Granzyme B is involved in target cell apoptosis during lymphocyte mediated cyto-toxicity. Exocytosis of granzyme containing granules in the cytoplasm of the target cell will lead to induction of DNA fragmentation and apoptosis of the target cell.

### **Immunoglobulin type**

Murine IgG<sub>2A</sub>

### **Use**

The monoclonal antibody stains granzyme B expressing lymphocytes in sections of sublimate formaldehyde as well as formalin fixed paraffin embedded tissues. It does not react with other cell types. The antibody can not be used on frozen sections. The antibody is useful for staining granzyme B protein on Western blot.

### **Instructions for use**

Before use in immunocytochemistry the slides have to be pretreated with 0.1 M sodium citrate, for 10 min. at 100°C (in microwave oven). A working dilution of 1:20 is advised but optimal dilution should be tested by serial dilution.

### **Presentation**

1 ml tissue culture supernatant with 1% BSA and 0.1% sodium azide.

Sufficient for at least 200 tests. Cat no. MON 7029-1.

5 ml tissue culture supernatant with 1% BSA and 0.1% sodium azide.

Sufficient for at least 1000 tests. Cat no. MON 7029-5.

### **Literature**

- Kummer, J.A., et al., 1993, *J. Immunol. Methods* 163, 77.
- Kummer, J.A., et al., 1995, *Clin. Exp. Immunol.* 100, 164.
- de Bruin, P.C., et al., 1994, *Blood* 84, 3785-3791.
- Oudejans, J.J., et al., 1996, *Am. J. Pathology* 148, 233-240
- Oudejans, J.J., et al., 1996, *Blood* 87, 3844-3851.

### **Storage and handling**

Store for short term ( 3 months) at 4°C and at -20°C for extended storage.

Aliquot and avoid repeated freezing and thawing.

FOR RESEARCH USE ONLY, NOT FOR DRUG, DIAGNOSTIC OR OTHER USE

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