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TECHNICALLY *Speaking*

Place your order with CEDARLANE® or your local distributor.
Please contact CEDARLANE® for lot specific information.

Purified Mouse anti-Rat Granulocytes

CL89152
Lot: 15221

DESCRIPTION:

This antibody detects all rat granulocytes in frozen tissue sections, and has been reported to work in FACS. The antigen is localized on the cell surface, however the epitope has not been further characterized..

SPECIFICITY:

Detects rat pan-granulocytes. It is negative for human. Reactivity with other species is not known.

IMMUNOGEN:

Peritoneal cells.

PRESENTATION:

100 ug of affinity purified IgG @ 1 mg/ml, liquid in PBS pH 7.2 containing 0.02% sodium azide and 0.0025% Thimerosal as a preservative.

CLONE: RK-4

ISOTYPE:

Mouse IgG1

APPLICATIONS:

Immunohistology (frozen) and FACS (reported). Does not react on routinely processed paraffin sections.

WORKING DILUTIONS:

For immunohistology, use approximately 1:100 (freshly prepared) on cryosections, and start at a dilution of 1:50-1:100 for FACS. (*see note* *).

Suggested positive control: rat spleen, blood smears.

STORAGE/STABILITY:

Stock solution and aliquots thereof should be kept frozen at -20°C for up to 1 year.

Do not freeze working dilutions!

Continued Overleaf...

For more information or to place an order please contact...

CEDARLANE®
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Isolated Cells:

Only a low percentage of cells from peripheral blood stains positive. Positive on peritoneal cells 18h after thioglycollate injection (95% granulocytes). Negative on peritoneal cells 4 days after thioglycollate injection.

Negative on isolated lymphocytes, monocytes, erythrocytes and platelets.

Tissue Staining:**RK-4 Reaction Pattern:**Tissues TestedResults

Bone Marrow

- positive on granulocytes
- positive on granulocyte precursors
- positive on segmented cells
- positive on band cells
- positive on metamyelocytes
- positive on myelocytes

Lung

Negative on alveolar macrophages; interstitial tissues are occasionally positive

Kidney

Negative; on perivascular granulocytes occasionally positive

Skin

Negative; on perivascular granulocytes occasionally positive

Liver

Negative; on perivascular granulocytes occasionally positive

Blood vessel wall

Negative

REFERENCES:

- 1) Steinhilber, F., *et al.* A Monoclonal Antibody Selectively Recognizing Rat Granulocytes. *Immunobiol.* **181**: 324 (1990).
- 2) Janelidze, S., *et al.* Activation of Purified Allogeneic CD4+ T Cells by Rat Bone Marrow-Derived Dendritic Cells Induces Concurrent Secretion of IFN- γ , IL-4 and IL-10. *Immunol. Lett.* Nov. 15; **101**(2): 193-201. (2005).
- 3) Frid, M. G., *et al.* Hypoxia-Induced Pulmonary Vascular Remodeling Requires Recruitment of Circulating Mesenchymal Precursors of a Monocyte/Macrophage Lineage. *Am. J. of Pathol.* **168**: 659-669 (2006).

Caution: This product contains Thimerosal, a poisonous and hazardous substance.

*** For optimal results in various applications it is recommended that investigators determine dilutions appropriate for individual use**

LABORATORY REAGENT; FOR RESEARCH USE ONLY