



## Peninsula Laboratories, LLC

A Member of the Bachem Group

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### Monoclonal Antibody to Rat Granulocytes

Monoclonal antibody RK-4 detects all rat granulocytes in frozen, and in paraffin embedded rat tissue sections after enzyme digestion..

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**Product Number:** T-3105

**Clone:** RK-4

**Host species, isotype:** Mouse IgG1

**Quantity:** 75µg

**Format:** Affinity purified, lyophilized

Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.15mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 10mg/ml bovine serum albumin (BSA) as a stabilizer and 0.01% thimerosal as a preservative.

**Stability:** Original vial: 1 year at 4° - 8°C

Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing.

**Applications:** Tested for immunohistochemistry (IHC); has been described to work in FACS.

**Approximate working dilution for IHC:**

Frozen sections: 1.5µg/ml (1:100)

Paraffin sections: does not react on routinely processed paraffin sections.

Optimal dilutions should be determined by the end user.

Suggested positive control: Rat spleen, blood smears.

**Immunogen:** Peritoneal cells.

**Antigen, epitope:** The antigen is localized on the cell surface. The epitope has not been further characterized.

**Antigen distribution:** **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.



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**Specificity:**

**Rat:** pan-granulocytes,.

**Other species:** human: negative, other species not tested.

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**Tissue staining:**

**RK-4 reaction pattern:**

Tissues tested	Results
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

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**Selected references**

STEINHAUSEN: F.; H. Xu, H.-J. Groene, H.J. Peters: A monoclonal Antibody Selectively Recognizing Rat Granulocytes. Immunobiol: 181: 324 (1990)

For in vitro research only. Caution: this product contains thimerosal, a poisonous and hazardous substance.