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## **Monoclonal Antibody to human Kappa Light Chain** **Marker for B-cells and for Immunoglobulin isotyping**

Monoclonal antibody  $\kappa$ -117 can be used for the detection of surface and intracytoplasmic immunoglobulins on normal and neoplastic B-cells. In conjunction with clone  $\lambda$ -1 (product T-1304), the light chain isotype of a B-cell population can be determined.

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**Product number: T-1307**

**Clone:  $\kappa$ -117**

**Lot: 02PO1314**

### **TECHNICAL AND ANALYTICAL CHARACTERISTICS:**

<b>Host species, isotype:</b>	Mouse IgG1, kappa light chain
<b>Quantity:</b>	100 $\mu$ g
<b>Format:</b>	Affinity purified, lyophilized Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.2mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 5mg/ml bovine serum albumin (BSA) as a stabilizer and 0.02% sodium azide as a preservative.
<b>Stability:</b>	Original vial: 1 year at 4° - 8°C Stock solution: 1 year at -20°C. Avoid repeated thawing and freezing.
<b>Applications:</b>	Tested for immunohistochemistry (IHC) <b>Approximate working dilution for IHC:</b> Frozen sections: 0.25 $\mu$ g/ml (1:800) Paraffin sections: Has been described to work with proteinase K pretreatment. Optimal dilutions should be determined by the end user. Suggested positive control: Human tonsil. Please see <a href="http://www.bma.ch">www.bma.ch</a> for protocols and general information.
<b>Immunogen:</b>	Purified human IgG.
<b>Antigen, epitope:</b>	The epitope is located on the kappa light chain of human Ig.

**Antigen distribution:**

**Isolated cells:** Antigen receptor bearing B-cells are stained positively.

**Tissue sections:** κ-117 labels follicular and non-follicular B-cells in lymphoid tissues. Intravascular staining can also be observed caused by circulating Ig. Strong labeling occurs with plasma cells in paraffin embedded tissues.

The antibody stains surface and intracellular immunoglobulins in cryostat sections. Only intracellular light chains are stained in formaldehyde fixed and paraffin embedded tissues after enzyme digestion (eg. plasma cells are stained in the latter case.)

**Specificity:**

**Human:** kappa light chain

**Other species:** not tested.

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**Selected references**

ODERMATT, B.F., KNECHT, H., HAGEN, M.F. FEHR, J., RUETTNER, J.R.: Diagnostic and Prognostic Value of Monoclonal Antibodies in Immunophenotyping of T-cell Lymphomas. *Acta Haematologica*, 77, 72-77 (1987).

ODERMATT, B.F., MAURER, R., RUETTNER, J.R.: Morphologische und immunologische Kriterien zur Diagnostik der Non-Hodgkin-Lymphome von niedrigem Malignitätsgrad. *Schweiz. Rundschau Med. (PRAXIS)* 75(15), 401-407 (1986).

STEIN, H., DALLENBACH, F., DIENEMANN, D.: Differentiation of Physiologic and Malignant Cells of the Lymphatic System. *Verh. Dtsch. Ges. Path.* 72, 57-85 (1988).

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