



BMA BIOMEDICALS

**Biotinylated Monoclonal Antibody to human
Kappa Light Chain**

Marker For B-cells and for Immunoglobulin isotyping

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

This antibody was produced serum-free, without fetal calf serum.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Product Number:	T-1308 (Lot 02PB1317)
Clone:	κ -117
Host species, isotype:	Mouse IgG1, kappa light chain
Quantity:	100 μ g
Format:	Affinity purified, biotinylated, 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 0.05% (v/v) Kathon™ CG as a preservative.
Stability:	Original vial: 1 year at 4° - 8°C from date of purchase. Stock solution and aliquots thereof: 1 year at -20°C. Avoid freeze-thaw cycles.
Applications:	Tested for immunohistochemistry (IHC). Approximate working dilution for IHC: Frozen sections: 0.25 μ g/ml (1:800) Paraffin sections: Has been described to work with proteinase K pretreatment (T-3401) Optimal dilutions should be determined by the end user Suggested positive control: Human tonsils Please see www.bma.ch for protocols and general information
Immunogen:	Purified human IgG
Protein database:	<u>human-P0DOX7</u>

Antigen, epitope:

The epitope is located on the lambda 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.

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. This product contains Kathon™ CG as a preservative.