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## **Monoclonal Antibody To Human CD37**

### **Marker for Peripheral Mature B cells**

Monoclonal antibody HH1 recognizes the CD37 antigen. CD37 is strongly expressed on normal and neoplastic mature B lymphocytes. In B-cell ontogeny, the antigen appears after the pre-B-cell stage, is maintained during peripheral B-cell development and is lost upon terminal differentiation into plasma cells. Due to its strong expression, CD37 is a valuable and stable marker for peripheral mature B cells and malignancies thereof. CD37 is extensively glycosylated and typically precipitates as a broad band ranging from 42 to 52kD.

***This antibody was produced in vitro in bioreactors, not from ascites.***

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**Product number: T-1359**

**Clone: HH1**

**Lot: 01PO0801**

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

**Host species, subclass:** Mouse IgG1

**Quantity:** 100µg

**Format:** 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), and 0.09% sodium azide 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: 0.5µg/ml (1:400)

Paraffin sections: does not work with routinely processed paraffin sections.

Optimal dilutions should be determined by the end user.

Suggested positive control: Human tonsil

Please see [www.bma.ch](http://www.bma.ch) for protocols and general information.

**Immunogen:** n.a.

**Antigen, epitope:** The antigen is CD37. The epitope has not been further analyzed.

**Antigen distribution:** **Isolated cells:** The antibody strongly stains approximately 2-10% of human peripheral blood mononuclear cells in flow cytometry. CD37 is present at low density on resting and activated T cells, neutrophils, monocytes and some myelomonocytic leukemia cells.

**Tissue sections:** The antibody shows a B cell restricted staining pattern.

**Specificity:** **Human:** CD37

**Other:** The antibody does not react with either frozen nor paraffin embedded porcine tissues.

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### **Selected references**

Barclay, Brown et al., The Leukocyte Antigen FactsBook, 2<sup>nd</sup> edition, Harcourt Brace & Company, London, (1997)

McMichael, A.J. et al. (eds), Leukocyte typing III., Oxford University Press, Oxford, (1987)

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