



BMA BIOMEDICALS

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Monoclonal Antibody To Human CD20

Intermediate Differentiation Stage B cell Marker

Monoclonal antibody CAT13.6E12 recognizes the CD20 antigen. CD20 belongs to the MS4A family (Membrane-spanning 4-domains subfamily A). Its expression is restricted to normal and neoplastic B cells. It is expressed by pre-B cells in the bone marrow, and expression persists during B cell maturation but is lost upon terminal differentiation into plasma cells.

CD20 is not glycosylated. CD20 is not phosphorylated in resting B cells, but becomes heavily phosphorylated after mitogen stimulation. Three cell surface isoforms 33, 35 and 37kD, result from differential phosphorylation of a single core 33kD protein within the cytoplasmic domain. Multiple proteins are coimmunoprecipitated with CD20, suggesting that it may be a component of a multimeric surface receptor complex. Monoclonal antibodies against CD20 are used therapeutically, such as Rituximab (Mabthera) or Britumomab (Zevalin).

Product number: T-1371

Clone: CAT13.6E12

Lot: 01PO0801

TECHNICAL AND ANALYTICAL CHARACTERISTICS:

Host species, subclass: Mouse IgG2a

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: 0.2µg/ml (1:1000)

Paraffin sections: not tested

Optimal dilutions should be determined by the end user.

Suggested positive control: Human tonsil

Please see www.bma.ch for protocols and general information.

Immunogen: n.a.

Antigen, epitope:	The antigen is CD20. The epitope has not been further characterized.
Antigen distribution:	Isolated cells: The antibody stains 5-20% of human peripheral blood mononuclear cells in flow cytometry
Specificity:	Human: CD20 Other: does not react with porcine tissues.

Selected references

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

D. Mason, D. et al. (eds), Leukocyte Typing VII, in press, Oxford University Press, Oxford, U.K., 2002

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