



Peninsula Laboratories, LLC

A Member of the Bachem Group

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Monoclonal Antibody To Human CD19 Marker For B-Lymphocyte Surface Antigen B4 (Leu-12)

Monoclonal antibody AE1 recognizes the CD19 antigen also known as Leu-12, which is expressed on B cells and follicular dendritic cells. CD19 is a signal transduction molecule which regulates B-cell development, activation, and differentiation. The CD19 antigen appears early in B lymphocyte differentiation at approximately the same stage as the CD22 antigen. CD19 is not expressed on granulocytes, monocytes or T cells as defined by CD3 expression.

Product Number: T-1355

Clone: AE1

Host species, isotype: 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) as a stabilizer 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: 1-3µg/ml (1:50 - 1:200)

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

Optimal dilutions should be determined by the end user.

Suggested positive control: Human tonsil **Antigen, epitope:**

The antigen is CD19. The epitope has not been further characterized.



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Antigen distribution:

Isolated cells: 5-50% of human peripheral blood mononuclear cells.

Tissue sections: The antigen is expressed on B-cells and follicular dendritic cells.

Specificity:

Human: CD19

Other: not tested.

Selected references

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

Kishimoto, Kikutani et al. (eds.) Leukocyte typing VI., Garland Publishing Inc., New York & London, (1997)

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