



Peninsula Laboratories, LLC

A Member of the Bachem Group

305 Old County Road, San Carlos, CA 94070

Tel: (800) 922-1516 • (650) 592-5392

Fax: (650) 595-4071

www.bachem.com

Monoclonal Antibody To Human CD24 Early B-cell Marker absent from Plasma Cells

Monoclonal antibody 32D12 recognizes the CD24 antigen which is expressed throughout B-cell development and is downregulated as bone marrow progenitors mature. CD24 expression is lost when human B-cells become plasma cells. The cellular function for human CD24 is unknown so far. Diagnostically, it can serve as a marker for staging B-cell development, and it is expressed at high levels in small cell lung carcinoma. CD24 is a member of a family that also includes Heat Stable Antigen HSA and CD52. It is a glycosylphosphatidylinositol (GPI) anchored glycoprotein.

Product Number: T-1358

Clone: 32D12

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), 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: 1µg/ml (1:200)

Paraffin sections: not tested

Optimal dilutions should be determined by the end user.

Suggested positive control: Human tonsilAntigen, epitope:

The antigen is CD24 with a molecular weight of 35 - 45kD. The epitope has not been further characterized.



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Antigen distribution:

Isolated cells: granulocytes.

Tissue sections: B-cells (germinal centers weak); follicular dendritic cells; variety of epithelial cell types.

Specificity:

Human: CD24

Other: not tested.

Selected references

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

Knapp, W. et al. (eds), Leukocyte typing IV., Oxford University Press, Oxford (1989)

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