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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

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: 1µg/ml (1:200) 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.
Antigen, epitope:	The antigen is CD24 with a molecular weight of 35 - 45kD. The epitope has not been further characterized.

Antigen distribution:	**Isolated cells:** granulocytes.
	Tissue sections: B-cells (germinal centers weak); follicular dendritic cells; variety of epithelial cell types.
Specificity:	**Human:** CD24
	Other: does not react with porcine tissues.

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.