

SCIENTIFIC BACKGROUND:

CD24 (Heat-Stable Antigen) is a heavily glycosylated 27 amino acid mucin-like protein that is bound to the plasma membrane by a glycosylphosphatidylinositol (GPI) anchor. CD24 is expressed by a variety of hematopoietic and epithelial cell types. The level of glycosylation is variable and cell type dependent.¹⁻⁴ In B cells, CD24 is expressed throughout development but is lost at the plasma cell stage.⁵ In the human mammary epithelium, CD24 is specific for luminal mammary epithelial cells where it is expressed at the apical plasma membrane.⁶ CD24 function is not well characterized, but preliminary studies indicate that it is a co-stimulatory molecule for CD4⁺ T cells and has a role in lymphocyte development and B-cell apoptosis.^{4, 7, 8} The only known ligand for CD24 is P-selectin.⁹

Product Information Sheet

ANTIBODIES



Version 1.1.0

ANTI-HUMAN CD24

Mouse Monoclonal Antibody
Clone 32D12

Catalog #01434 100 mg

SPECIFICITY:

The 32D12 mouse monoclonal antibody recognizes human CD24. Other species have not been tested.

CLONE: 32D12

ISOTYPE: IgG₁, κ

IMMUNOGEN:

This mouse monoclonal antibody was generated using the human pre-B lymphoblastic leukemia cell line Reh.

FORMAT:

100 µg in 100 µL (1 mg/mL) of phosphate buffered saline (PBS). Does not contain sodium azide or albumin. The antibody was purified from tissue culture supernatant by Protein G affinity chromatography.

STABILITY AND STORAGE:

The antibody should be stored at 2-8°C. Do not freeze. Product is stable for at least 2 years.

APPLICATIONS AND DIRECTIONS FOR USE:

Refer to Material Safety Data Sheet for more information.

Centrifuge tube briefly before use to ensure recovery of entire contents.

This product is suitable for flow cytometry when used at = 1 µg of antibody per million cells resuspended in 100 µL (e.g. 1 µL of antibody per 100 µL of cells). This antibody is not suitable for immunostaining of paraffin embedded tissues. Note: Optimal working dilution should be determined for each specific application.

This antibody can also be used for positive selection or depletion of human CD24⁺ cells with StemCell's reagents for immunomagnetic cell separation. Please contact us for more information.

REFERENCES:

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**THIS REAGENT IS FOR RESEARCH ONLY.
IT IS NOT TO BE ADMINISTERED TO HUMANS.**

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