

# STEM24™

Mouse Monoclonal Antibody Specific for Human CD24



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## Product Information

Catalog Numbers: AB-24-U-050      Forms: Unconjugated  
AB-24-PE-050      Phycoerythrin-conjugated  
AB-24-APC-050      Allophycocyanin-conjugated

Size: 50µg  
Volume: 100µL  
Isotype: IgG1

## Specificity

STEM24 reacts specifically with CD24, also known as Heat Stable Antigen (HSA), a glycoprotein expressed on the surface of many human cell types, including immature human hematopoietic cells<sup>1</sup>, peripheral blood lymphocytes<sup>2</sup>, erythrocytes<sup>3</sup> and many human carcinomas<sup>4</sup>. CD24 is also a marker of neural differentiation<sup>5</sup>.

## Preparation and Storage

STEM24 is generated from cell culture supernatants in low serum conditions and is purified by affinity chromatography. The antibody is supplied in Phosphate Buffered Saline (pH 7.4) containing 0.02% sodium azide. Store at 2-8°C. The phycoerythrin- and allophycocyanin-conjugated forms of STEM24 are light sensitive and should be protected from light.

## Usage/Application

STEM24 can be used in the detection and isolation of cells by fluorescence activated cell-sorting (FACS). The antibody can be used at a dilution of 1:100 for FACS analysis. It is recommended that investigators determine optimal conditions for use of STEM24 in their own experiments.

## References

- 1 Alterman LA, *et al.* Characterization of the murine heat-stable antigen: An hemato-lymphoid differentiation antigen defined by the J11d, M1/69 and B2A2 antibodies. *Eur. J. Immunol.* (1990) 20:1597-1602
- 2 Allman DM, *et al.* Peripheral B cell maturation. I. Immature peripheral B cells in adults are heat-stable antigen hi and exhibit unique signaling characteristics. *J. Immunol.* (1992) 149:2533-2540
- 3 Nielsen PJ, *et al.* Altered erythrocytes and a leaky block in B-cell development in CD24/HAS-deficient mice. *Blood* (1997) 89: 1058-1067
- 4 Baumann P, *et al.* CD24 expression causes the acquisition of multiple cellular properties associated with tumor growth and metastasis. *Cancer Res.* (2005) 65:10783-10793
- 5 Pruszek J, *et al.* CD15, CD24, and CD29 Define a surface biomarker code for neural lineage differentiation of stem cells. *Stem Cells* (2009) 27:2928-2940

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