

TECHNICAL DATA SHEET

CyFlow™ CD1b Purified Anti-Hu; Clone SN13

REF CG223656

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD1b
Alternative Names	R1, CD1
Clone	SN13
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	A cell membrane antigen preparation that was isolated from normal human thymocytes

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Specificity

The mouse monoclonal antibody SN13 (K5-1B8) recognizes CD1b antigen, a 44 kDa type I glycoprotein associated with β 2-microglobulin. It is expressed on dendritic cells, Langerhans cells, thymocytes, and T acute lymphoblastic leukemia cells.

Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Immunoprecipitation
- Immunohistochemistry

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH $\approx$ 7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

CD1b (R1) together with CD1a and CD1c, belongs to group 1 of CD1 antigens. These non-classical MHC-like glycoproteins serve as antigen-presenting molecules for a subset of T cells that responds to specific lipids and glycolipids found in the cell walls of bacterial pathogens or self-glycolipid antigens such as gangliosides, and they have also roles in antiviral immunity. The trafficking routes of the particular CD1 types differ and correspond to their ability to bind and present different groups of antigens. Besides non-peptide glycolipid antigen presentation to CD1-restricted T cells, CD1b has been implicated in thymocyte development.

References

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- Giuliani A, Prete SP, Graziani G, Aquino A, Balduzzi A, Sugita M, Brenner MB, Iona E, Fattorini L, Orefici G, Porcelli SA, Bonmassar E: Influence of Mycobacterium bovis bacillus Calmette Guérin on in vitro induction of CD1 molecules in human adherent mononuclear cells. *Infect Immun.* 2001 Dec; 69(12):7461-70. < PMID: 11705921 >
- Hayes SM, Knight KL: Group 1 CD1 genes in rabbit. *J Immunol.* 2001 Jan 1; 166(1):403-10. < PMID: 11123318 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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