

Technical Data Sheet

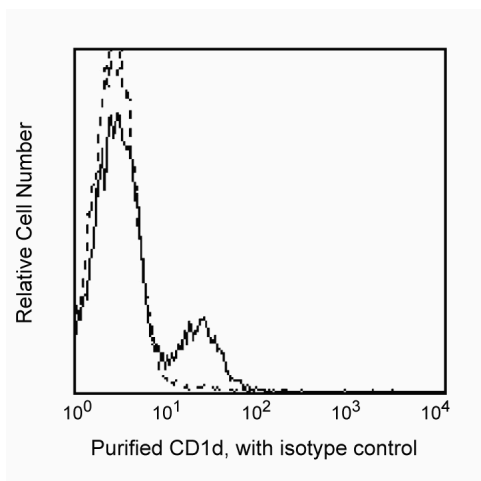
Purified Mouse Anti-Human CD1d

Product Information

Material Number:	550254
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	CD1d42
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	NA
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

Reacts with a glycosylated type I transmembrane α chain (43-49 kDa) non-covalently associated with $\beta 2$ -microglobulin. CD1d is a member of the CD1 family of molecules, which belong to the immunoglobulin superfamily. Sequence homology data classifies the CD1 molecules into two groups. Group 1 includes CD1a, CD1b and CD1c molecules; group 2 includes CD1d molecules and their homologues in other species. CD1d is expressed on human intestinal epithelial cells (IEC). CD1d42 monoclonal antibody reacts with peripheral blood B cells coexpressing CD19 and CD45RA. It is not seen on CD3[+], or CD45RO[+] cells. Studies suggest that CD1d participates in lipid antigen presentation.



Profile of peripheral blood lymphocytes analyzed by flow cytometry

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Store undiluted at 4° C.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
555746	Purified Mouse IgG1, κ Isotype Control	0.1 mg	MOPC-21
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Polyclonal

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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References

- Kishimoto T, von dem Borne AEG, Goyert SM, et al., ed. *Leucocyte Typing VI: White Cell Differentiation Antigens*. London: Garland Publishing; 1997.(Biology)
- Hong S, Scherer DC, Singh N. Lipid antigen presentation in the immune system: lessons learned from CD1d knockout mice. *Immunol Rev*. 1999; 169:31-44. (Biology)
- Somnay-Wadgaonkar K, Nusrat A, Kim HS. Immunolocalization of CD1d in human intestinal epithelial cells and identification of a beta2-microglobulin-associated form. 1999; 11(3):383-392.(Biology)