

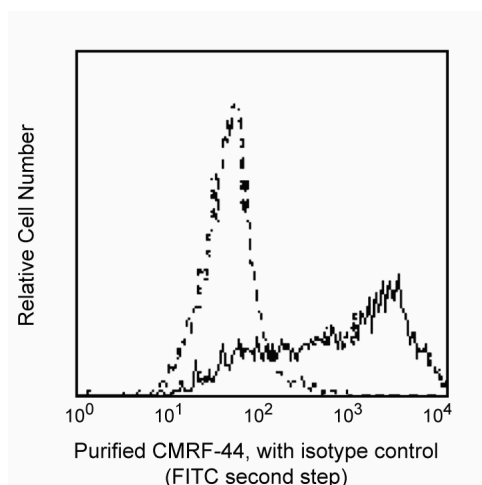
Technical Data Sheet

Purified Mouse Anti-Human CMRF-44**Product Information**

Material Number:	551055
Alternate Name:	Dendritic Cell Marker
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	CMRF-44
Isotype:	Mouse IgM, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

Reacts with an early differentiation/activation antigen induced on dendritic cells and acts as a marker of allostimulatory activity. The CMRF-44 antigen is induced on dendritic cells isolated from peripheral blood and tonsil and to a lesser extent on some activated B lymphocytes and monocytes/macrophages. CMRF-44 was generated using the Hodgkin's derived L428 cell line as immunogen. This reagent could be useful in flow cytometric, or immunomagnetic separation procedures and immunohistochemical staining of acetone-fixed frozen tissue sections.



Profile of monocyte culture-derived dendritic cells analyzed by flow cytometry. Second step staining with cat. no. 555988.

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
555581	Purified Mouse IgM, κ Isotype Control	0.1 mg	G155-228
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Polyclonal

Product Notices

- Since applications vary, each investigator should titrate the reagent to obtain optimal results.

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2. Please refer to www.bdbiosciences.com/pharming/en/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

Fearnley DB, McLellan AD, Mannering SI, Hock BD, Hart DN. Isolation of human blood dendritic cells using the CMRF-44 monoclonal antibody: implications for studies on antigen-presenting cell function and immunotherapy. *Blood*. 1997; 89(10):3708-3716.(Clone-specific: Flow cytometry, Immunohistochemistry)

Hock BD, Fearnley DB, Boyce A. Human dendritic cells express a 95 kDa activation/differentiation antigen defined by CMRF-56. *Tissue Antigens*. 1999; 53(4 Pt 1):320-334.(Clone-specific: Flow cytometry, Immunohistochemistry)

Hock BD, Starling GC, Daniel PB, Hart DN. Characterization of CMRF-44, a novel monoclonal antibody to an activation antigen expressed by the allostimulatory cells within peripheral blood, including dendritic cells. *Immunology*. 1994; 83(4):573-581.(Clone-specific: Flow cytometry, Immunohistochemistry)