Technical Data Sheet FITC Mouse Anti-Human CDw93

Product Information	
Material Number:	551531
Alternate Name:	ClqRp
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	R139
Isotype:	Mouse IgG2b, ĸ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The immunogen used to raise R139 was a CDw93 preparation as described. CDw93 is also known as C1q-binding protein. Human C1qRp is a 631 amino acid protein (~66.5 kD) protein that is highly expressed on monocytes/macrophages, neutrophil granulocytes but not on T and B lymphocytes. ClqRp binds Clq, the recognition subunit of the first component (Cl) of the complement pathway, as well as MBL (Mannose-binding-lectin) and SPA(Pulmonary Surfactant Protein A). Human C1qRp is involved in the C1q-mediated enhancement of phagocytosis. R139 is suitable to detect C1qRp expression on cells of myeloid lineage by flow cytometry, C1qRp in cellular lysates by Western blotting or immunoprecipitation. In addition, R139 neutralizes C1qmediated enhancement of phagocytosis, as reported. CDw93 (C1qRp) has been reported to define a human stem cell population with hematopoietic and hepatic potential.



Expression of CDw93 by unstimulated human peripheral blood mononuclear cells (PBMC). Human PBMC were stained with FITC-conjugated mouse anti-human CDw93 antibody (Clone R139, Cat. No. 551531) by using Pharmingen's staining protocol. A histogram overlay shows specific cell staining of gated monocytes with R139-FITC (0.125 µg/10e6, filled histogram) compared to matched FITC-conjugated isotype control, line histogram.



To deomonstrate specificity of staining, monocyte staining by FITC-R139 (thick line) was blocked by co-incubation with an excess of unlabeled R139 antibody (5 µg/10e6, Cat. No. 551087, filled histogram). Autofluorescence is also shown.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. The antibody was conjugated with FITC under optimum conditions, and unreacted FITC was removed. Store undiluted at 4° C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application	l						
Flow cyto	metry					Routinely Tested	
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Recommended Assay Procedure:

Immunofluorescent Staining and Flow Cytometric Analysis: The staining technique and blocking controls are described in detail by C. Prussin and D. Metcalfe. Asuitable mouse IgG2b isotype control for assessing the level of background staining on human cells is recommended: use at comparable concentrations to antibody of interest (e.g., $\leq 0.125 \ \mu g \ Ab/1$ million cells).

Suggested Companion Products

Catalog Number	Name	Size	Clone
555057	FITC Mouse IgG2b, κ Isotype Control	0.1 mg	27-35

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

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