Technical Data Sheet Purified Mouse Anti-Human CD77

Product Information	
Material Number:	551352
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	5B5
Isotype:	Mouse IgM, ĸ
Reactivity:	QC Testing: Human
Workshop:	VI CD77.5
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

Reacts with CD77, a small neutral glycosphingolipid, 1 kDa, also referred to as globotriaosylceramide (Gb3). CD77 is expressed on a subset of germinal center B-lymphocytes and not on peripheral blood lymphocytes, bone marrow or spleen. It has been described as a receptor for Shiga Toxin, produced by Shigella dysenteriae, and Verotoxin 1 (VT1), produced by some strains of E. coli. CD19 has been reported as a ligand for CD77 and these interaction functions in adhesion and signal transduction at a specific stage of B cell development. Studies have shown that cross-linking CD77 induces apoptosis in some B cell lines.

This antibody is routinely tested by flow cytometric analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Profile of Ramos cell line 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

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

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Product Notices

- Since applications vary, each investigator should titrate the reagent to obtain optimal results. 1.
- 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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Lagresle C, Bella C, Daniel PT, Krammer PH, Defrance T. Regulation of germinal center B cell differentiation. Role of the human APO-1/Fas (CD95) molecule. J Immunol. 1995; 154(11):5746-5756.(Biology)

Maloney MD, Lingwood CA. CD19 has a potential CD77 (globotriaosyl ceramide)-binding site with sequence similarity to verotoxin B-subunits: implications of molecular immicry for B cell adhesion and enterohemorrhagic Escherichia coli pathogenesis. *J Exp Med.* 1994; 180(1):191-201.(Biology) Mangeney M, Rousselet G, Taga S, Tursz T, Wiels J. The fate of human CD77+ germinal center B lymphocytes after rescue from apoptosis. *Mol Immunol.* 1995;

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