Technical Data Sheet

PE Mouse Anti-Mouse IgM[b]

Product Information

Material Number:	**553521**
Alternate Name:	Igh-6b
Size:	0.2 mg
Concentration:	0.2 mg/ml
Clone:	AF6-78
Immunogen:	C57BL/10 mouse splenocytes
Isotype:	Mouse (BALB/c) IgG1, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The AF6-78 antibody reacts specifically with mouse IgM of *Igh-C[b]* and related haplotypes (e.g., C57BL/6, C57BL/10, SJL, AKR, NZB). It does not react with IgM of *Igh-C[a]* or related haplotypes (e.g., BALB/c, C58, CBA, C3H/Bi, C3H/He, DBA/1, DBA/2, PL, RIII). Cross-reaction with IgM of *Igh-C[e]* haplotype (e.g., A/J) has been observed. AF6-78 antibody does not react with free μ heavy chain in vitro or in the cytoplasm of pre-B lymphocytes, which lack Ig light chain. It has not been shown to stimulate B-cell proliferation.

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

Preparation and Storage

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

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed by gel filtration chromatography.

Store undiluted at 4° C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Flow cytometry	Routinely Tested

Recommended Assay Procedure:

PE-conjugated AF6-78 mAB may be used as primary or secondary reagent in immunofluorescent staining.

Suggested Companion Products

Catalog Number	Name	Size	Clone
550617	PE Mouse IgG1, κ Isotype Control	0.1 mg	MOPC-31C

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

Stall AM. Mouse immunoglobulin allotypes. In: Herzenberg LA, Weir DM, Blackwell C, ed. *Weir's Handbook of Experimental Immunology.* Blackwell Science Publishers; 1996:27.1-27.16.(Clone-specific: Flow cytometry)

Stall AM, Loken MR. Allotypic specificities of murine IgD and IgM recognized by monoclonal antibodies. *J Immunol.* 1984; 132(2):787-795.(Immunogen)

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