

## 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, $\kappa$
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ 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  $\mu$  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
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## 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, $\kappa$ 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](http://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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