Technical Data Sheet

Biotin Mouse Anti-Mouse IgM[a]

Product Information

Material Number:	**553515**
Alternate Name:	Igh-6a
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	DS-1
Immunogen:	Mouse NMRI Monoclonal Antibody TC31
Isotype:	Mouse (C57BL/6) IgG1, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The DS-1 antibody reacts specifically with mouse IgM of *Igh-C[a]* and related haplotypes (e.g., BALB/c, C58, CBA, C3H/Bi, C3H/He, DBA/1, DBA/2). It does not react with IgM of *Igh-C[b], Igh-C[e]*, or related hapltypes (e.g., C57BL, SJL, A, AKR, NZB). DS-1 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 biotin under optimum conditions, and unreacted biotin was removed.
Store undiluted at 4° C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Flow cytometry	Routinely Tested
ELISA	Tested During Development
Immunohistochemistry-frozen	Reported

Recommended Assay Procedure:
Biotin DS-1 mAb may be used as a primary or secondary reagent in immunofluorescent staining.

Suggested Companion Products

Catalog Number	Name	Size	Clone
554061	PE Streptavidin	0.5 mg	(none)
550615	Biotin Mouse IgG1 κ Isotype Control	0.25 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

Garside P, Ingulli E, Merica RR, Johnson JG, Noelle RJ, Jenkins MK. Visualization of specific B and T lymphocyte interactions in the lymph node. *Science.* 1998; 281(5373):96-99.(Biology)
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.(Biology)

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