

Technical Data Sheet

Biotin Mouse Anti-Mouse IgD[a]

Product Information

Material Number:	553506
Alternate Name:	Igh-5a, Igh-5.4
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	AMS 9.1
Immunogen:	BALB/c mouse splenocytes
Isotype:	Mouse (SJL) IgG2b, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The AMS 9.1 antibody reacts specifically with the Fc portion of mouse IgD of *Igh C[a]* haplotype (eg, AKR, BALB/c, CBA, C3H/He, C58, DBA/1, DBA/2, NZB). It does not react with IgD of *Igh-C[b]* or *Igh-C[e]* haplotypes (eg, C57BL/6, C57BL/10, SJL, A). AMS 9.1 mAb is effective for detection of cell-surface Ig by immunofluorescent staining with flow cytometric analysis. It has been reported to stimulate B-cell proliferation.

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
Immunohistochemistry-frozen	Tested During Development
Immunoprecipitation	Reported
Stimulation	Reported
Immunofluorescence	Reported

Recommended Assay Procedure:

This antibody has been tested during the development by immunohistochemical staining of acetone-fixed frozen BALB/c mouse spleen tissue sections with the antibody concentration of 1-10 μ g/ml. It's not tested for each lot by immunohistochemical staining application.

Suggested Companion Products

Catalog Number	Name	Size	Clone
559531	Biotin Mouse IgG2b, κ Isotype Control	0.25 mg	MPC-11
554060	FITC Streptavidin	0.5 mg	(none)

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

Goroff DK, Stall A, Mond JJ, Finkelman FD. In vitro and in vivo B lymphocyte-activating properties of monoclonal anti-delta antibodies. I. Determinants of B lymphocyte-activating properties. *J Immunol.* 1986; 136(7):2382-2392. (Clone-specific: Immunoprecipitation, Stimulation)

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

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