

Technical Data Sheet

Biotin Rat Anti-Mouse IgG2a/2b

Product Information

Material Number:	553398
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	R2-40
Immunogen:	Pooled Mouse Ig
Isotype:	Rat (LOU) IgG1, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The R2-40 antibody recognizes a common epitope, probably located in the CH1 domain, shared by mouse IgG2a, and IgG2b, of *Igh-Ca* and *Igh-Cb* haplotypes. It does not react with other Ig isotypes.

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

ELISA	Routinely Tested
Flow cytometry	Routinely Tested

Recommended Assay Procedure:

Biotinylated R2-40 mAb may be used as a primary or secondary reagent in immunofluorescent staining. For flow cytometric detection of intracytoplasmic IgG2a/2b, we recommend FITC-conjugated mAb R2-40 (Cat. No. 553399). For immunohistochemical staining, we recommend the use of biotinylated anti-mouse IgG2a mAb R19-15 or anti-mouse IgG2b mAb R12-3 (Cat. No. 550332 or 550333, respectively) in our special formulation for immunohistochemistry.

Suggested Companion Products

Catalog Number	Name	Size	Clone
553399	FITC Rat Anti-Mouse IgG2a/2b	0.5 mg	R2-40

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.

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www.bdbiosciences.com

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