Technical Data Sheet

Purified Rat Anti-Mouse IgG2a/2b

Product Information

Material Number:	**553397**
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 ≤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 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.
Store undiluted at 4° C.

Application Notes

Application

ELISA	Routinely Tested

Recommended Assay Procedure:
Purified R2-40 mAb may be used as a primary reagent in immunofluorescent staining. For flow cytometric detection of intracytoplasmic IgG2a/2b, we recommend FITC-conjugated mAb R2-40 (Cat. No. 553399).

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.
4. Sodium azide is a reversible inhibitor of oxidative metabolism; therefore, antibody preparations containing this preservative agent must not be used in cell cultures nor injected into animals. Sodium azide may be removed by washing stained cells or plate-bound antibody or dialyzing soluble antibody in sodium azide-free buffer. Since endotoxin may also affect the results of functional studies, we recommend the NA/LE™ (No Azide/Low Endotoxin) antibody format, if available, for in vitro and in vivo use.

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