Technical Data Sheet

Purified Rat Anti-Mouse IgG2b

Product Information

Material Number:	**553392**
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	R12-3
Immunogen:	Pooled Mouse Ig
Isotype:	Rat (LOU) IgG2a, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The R12-3 antibody recognizes an epitope in the CH3 domain of mouse IgG2b of *Igh-C[a]* and *Igh-C[b]* haplotypes. It does not react with other Ig isotypes. Detection of surface immunoglobulin on B lymphoma cells has been demonstrated with R12-3 mAb.

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
Flow cytometry	Tested During Development

Recommended Assay Procedure:
For the sandwich mouse IgG2b ELISA, biotin-, or AKP-conjugated R12-3 mAb (Cat. No. 553393 or 553394, respectively) is optimal for detection with purified anti-mouse IgG2b R9-91 mAb (Cat. No. 553396) for capture. Purified R12-3 mAb may be used as a primary reagent in immunofluorescent staining. For flow cytometric detection of intracytoplasmic IgG2b, we recommend FITC-conjugated mAb R12-3 (Cat. No. 553395).

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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