

Technical Data Sheet

Biotin Rat Anti-Mouse IgG2b

Product Information

Material Number:	553393
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 $\leq 0.09\%$ 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 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 Detection	Routinely Tested
Flow cytometry	Routinely Tested
Immunohistochemistry-frozen	Tested During Development

Recommended Assay Procedure:

ELISA: For the mouse IgG2b sandwich ELISA, biotinylated R12-3 mAb is optimal for detection (~2 $\mu\text{g/ml}$) using purified anti-mouse IgG2b R9-91 mAb (Cat. No. 553396) for capture, with purified mouse IgG2b, κ , (Cat. No. 557351) as the standard.

Immunofluorescent staining: Biotinylated R12-3 mAb may be used as a primary or secondary reagent in immunofluorescent staining. For flow cytometric detection of intracytoplasmic IgG2b, we recommend FITC-conjugated mAb R12-3, Cat. No. 553395.

Immunohistochemistry: For IHC, we recommend the use of biotinylated R12-3 mAb in our special formulation for immunohistochemistry, Cat. No. 550333.

Suggested Companion Products

Catalog Number	Name	Size	Clone
553396	Purified Rat Anti-Mouse IgG2b	0.5 mg	R9-91
557351	Purified Mouse IgG2b, κ Isotype Control	0.5 mg	MPC-11
553395	FITC Rat Anti-Mouse IgG2b	0.5 mg	R12-3

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.

BD Biosciences

www.bdbiosciences.com

United States 877.232.8995 Canada 888.259.0187 Europe 32.53.720.550 Japan 0120.8555.90 Asia Pacific 65.6861.0633 Latin America/Caribbean 55.11.5185.9995

For country-specific contact information, visit www.bdbiosciences.com/how_to_order/

Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton Dickinson and Company is strictly prohibited.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

BD, BD Logo and all other trademarks are the property of Becton, Dickinson and Company. ©2007 BD

