

Technical Data Sheet

Biotin Rat Anti-Mouse IgG3

Product Information

Material Number:	553401
Alternate Name:	Ighg3; Immunoglobulin heavy constant gamma 3
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	R40-82
Immunogen:	Mouse Pooled Ig
Isotype:	Rat (LOU) IgG2a, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing protein stabilizer and ≤0.09% sodium azide.

Description

The R40-82 antibody specifically recognizes mouse IgG3 of all strains. It does not react with other Ig isotypes.

Preparation and Storage

Store undiluted at 4°C.

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.

Application Notes

Application

ELISA	Routinely Tested
Flow cytometry	Tested During Development
Immunohistochemistry-frozen	Reported

Recommended Assay Procedure:

For the sandwich mouse IgG3, ELISA, Biotin Rat Anti-Mouse IgG3 is optimal for detection with Purified Rat Anti-Mouse IgG3 (Cat. No. 553404) for capture and Purified Mouse IgG3, κ Isotype Control (Cat. No. 553486) for the standard. Biotin Rat Anti-Mouse IgG3 may also be used as a primary or secondary reagent in immunofluorescent staining. Biotin Rat Anti-Mouse IgG3 is effective for detection of cell-surface or intracellular Ig by immunofluorescent staining with flow cytometric analysis. For flow cytometric detection of intracytoplasmic IgG3, we recommend FITC Rat Anti-Mouse IgG3 (Cat. No. 553403).

Suggested Companion Products

<u>Catalog Number</u>	<u>Name</u>	<u>Size</u>	<u>Clone</u>
553403	FITC Rat Anti-Mouse IgG3	0.5 mg	R40-82
553404	Purified Rat Anti-Mouse IgG3	0.5 mg	R2-38
553486	Purified Mouse IgG3, κ Isotype Control	0.5 mg	A112-3

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. An isotype control should be used at the same concentration as the antibody of interest.
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. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
5. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

Duong BH, Ota T, Ait-Azzouzene D, et al. Peripheral B cell tolerance and function in transgenic mice expressing an IgD superantigen. *J Immunol.* 2010; 184(8):4143-58. (Biology)

Kuzin II, Snyder JE, Ugine GD, et al. Tetracyclines inhibit activated B cell function. *Int Immunol.* 2001; 13(7):921-31. (Biology)

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