

## Technical Data Sheet

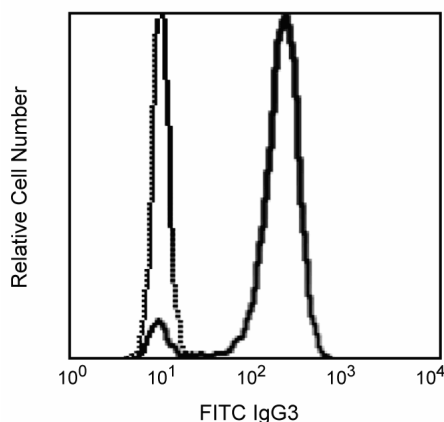
## FITC Rat Anti-Mouse IgG3

## Product Information

Material Number:	553403
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, $\kappa$
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

## Description

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



*Flow cytometric analysis of intracellular mouse IgG3 on hybridoma cells. Permeabilized cells were stained with FITC Rat Anti-Mouse IgG3 (Cat. No. 553403; solid line histogram) or with FITC Rat IgG1,  $\kappa$  Isotype Control (Cat. No. 554688; dashed line histogram). The fluorescence histograms were derived from gated events with the forward and side light-scattering characteristics of viable hybridoma cells. Flow cytometry was performed on a FACSCalibur™.*

## Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with FITC under optimum conditions, and unreacted FITC was removed.

## Application Notes

## Application

Flow cytometry	Routinely Tested
Intracellular staining (flow cytometry)	Tested During Development

## Recommended Assay Procedure:

FITC Rat Anti-Mouse IgG3 may be used as a primary or secondary reagent in immunofluorescent staining. FITC Rat Anti-Mouse IgG3 is effective for detection of cell-surface or intracellular Ig by immunofluorescent staining with flow cytometric analysis. Note: intracellular staining is not routinely tested at BD Biosciences Pharmingen. The BD Cytofix/Cytoperm™ Fixation/Permeablization Kit, (Cat. No. 554714) contains the appropriate reagents for intracellular staining.

## Suggested Companion Products

Catalog Number	Name	Size	Clone
554688	FITC Rat IgG2a, $\kappa$ Isotype Control	0.1 mg	R35-95
553141	Purified Rat Anti-Mouse CD16/CD32 (Mouse BD Fc Block™)	0.1 mg	2.4G2
554714	BD Cytofix/Cytoperm™ Fixation/Permeablization Kit	250 Tests	(none)
554656	Stain Buffer (FBS)	500 mL	(none)
554657	Stain Buffer (BSA)	500 mL	(none)

## BD Biosciences

bdbiosciences.com

United States 877.232.8995 Canada 866.979.9408 Europe 32.2.400.98.95 Japan 0120.8555.90 Asia Pacific 65.6861.0633 Latin America/Caribbean 55.11.5185.9995

For country contact information, visit [bdbiosciences.com/contact](http://bdbiosciences.com/contact)

*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.  
© 2017 BD. BD, the BD Logo and all other trademarks are property of Becton, Dickinson and Company.



## 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](http://www.bdbiosciences.com/colors).
5. Please refer to [www.bdbiosciences.com/pharmingen/protocols](http://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, Uguine GD, et al. Tetracyclines inhibit activated B cell function. *Int Immunol.* 2001; 13(7):921-31. (Biology)