

## Technical Data Sheet

## FITC Goat Anti-Rat Ig

## Product Information

Material Number:	554016
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	Polyclonal
Isotype:	Goat Ig
Reactivity:	QC Testing: Rat
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

## Preparation and Storage

The polyclonal antibody was purified from antiserum by negative adsorption and affinity chromatography.

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

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

## Application Notes

## Application

Flow cytometry	Routinely Tested
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## Recommended Assay Procedure:

This antibody conjugate has been tested by immunofluorescent staining ( $\leq 1 \mu\text{g}/\text{million cells}$ ) with flow cytometric analysis on rat splenocytes and human lysed whole blood and as a second-step reagent on mouse splenocytes to assure specificity and reactivity. This antibody stains rat peripheral B cells, and it has little reactivity with rat non-B splenocytes, mouse splenocytes, or human peripheral blood leukocytes. As a second step, it is reactive with rat IgG and IgM monoclonal antibodies; a weaker signal is detected when the primary antibody has a rat IgG2b isotype. It has weak cross-reactivity detectable by flow cytometry with some, but not all, hamster immunoglobulins. Consequently, it may be useful as a primary reagent in immunofluorescent staining of rat antibody-producing cells or as a secondary reagent for staining of mouse or human leukocytes after reaction with rat Ig primary antibodies. However, we have observed that the reactivity of polyclonal second-step antibodies to mouse or rat IgM may be reduced after adsorption against Ig of rat or mouse, respectively. Because this anti-rat Ig antibody was adsorbed with mouse Ig, it may be weakly reactive with some rat IgM primary antibodies. In those cases, we recommend FITC-conjugated anti-rat IgM mAb G53-238 (Cat. no. 553887) or FITC-conjugated anti-rat Ig  $\kappa$  light chain mAb MRK-1 (Cat. no. 553872).

## Suggested Companion Products

Catalog Number	Name	Size	Clone
553887	FITC Mouse Anti-Rat IgM	0.5 mg	G53-238
553872	FITC Mouse Anti-Rat Ig, $\kappa$ Light Chain	0.5 mg	MRK-1

## 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](http://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. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

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