

## Technical Data Sheet

**Purified Rat IgG1,  $\kappa$  Isotype Control****Product Information**

<b>Material Number:</b>	553922
<b>Size:</b>	0.5 mg
<b>Concentration:</b>	0.5 mg/ml
<b>Clone:</b>	R3-34
<b>Isotype:</b>	Rat IgG1, $\kappa$
<b>Storage Buffer:</b>	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

**Description**

The immunoglobulin from the R3-34 hybridoma was identified as a non-reactive clone, following immunization with mouse Ig. The R3-34 immunoglobulin was selected as an isotype control following screening for low background on a variety of mouse and human tissues.

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.

Store undiluted at 4° C.

**Application Notes****Application**

ELISA Standard	Routinely Tested
Flow cytometry	Routinely Tested
Isotype control	Routinely Tested

**Recommended Assay Procedure:**

This antibody is useful as a standard in ELISA and as an isotype-matched negative control for immunofluorescent staining with flow cytometric analysis. An isotype control should be used at the same concentration as the antibody of interest. For immunohistochemical staining we recommend the use of purified R3-34 mAb in our special formulation for immunohistochemistry (Cat. No. 559072).

**Caution:** 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 (553921, 554682) of the R3-34 clone for in vitro and in vivo use.

**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.

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