Technical Data Sheet

Purified Mouse Anti-Rat IgG1

Product Information

Material Number:	**553889**
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	RG11/39.4
Immunogen:	Pooled rat IgG1
Isotype:	Mouse (SJL) IgG2a, κ
Reactivity:	QC Testing: Rat
Storage Buffer:	Aqueous buffered solution containing protein stabilizer and ≤0.09% sodium azide.

Description

The RG11/39.4 antibody reacts specifically with the Fc region of rat IgG1. It does not react with other Ig isotypes.

This antibody is routinely tested by ELISA 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	Routinely Tested

Recommended Assay Procedure:

For the sandwich rat IgG1 ELISA, biotinylated mAb RG11/39.4 (Cat. No. 553890) is optimal for detection with purified anti-rat IgG1 mAb B46-2 (available by special order) for capture. RG11/39.4 antibody is effective for detection of cell-surface or intracellular Ig by immunofluorescent staining with flow cytometric analysis. For flow cytometric detection of intracytoplasmic IgG1, we recommend FITC-conjugated RG11/39.4 mAb (Cat. No. 553892). Since applications vary, each investigator must determine dilutions appropriate for individual use.

Suggested Companion Products

Catalog Number	Name	Size	Clone
553890	Biotin Mouse Anti-Rat IgG1	0.5 mg	RG11/39.4
553892	FITC Mouse Anti-Rat IgG1	0.5 mg	RG11/39.4

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.
4. 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, if available, for in vitro and in vivo use.

References

Springer TA, Bhattacharya A, Cardoza JT, Sanchez-Madrid F. Monoclonal antibodies specific for rat IgG1, IgG2a, and IgG2b subclasses, and kappa chain monotypic and allotypic determinants: reagents for use with rat monoclonal antibodies. *Hybridoma.* 1982; 1(3):257-273. (Immunogen: ELISA)

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