# **Technical Data Sheet** PE Rat Anti-Mouse CD16/CD32

Product Information	
Material Number:	553145
Alternate Name:	Fcy III/II Receptor
Size:	0.2 mg
Concentration:	0.2 mg/ml
Clone:	2.4G2
Immunogen:	Mouse BALB/c Macrophage J774
Isotype:	Rat IgG2b, ĸ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.
Description	

The 2.4G2 antibody reacts specifically with a common nonpolymorphic epitope on the extracellular domains of the mouse FcyIII and FcyII receptors. It has also been reported to bind the FcyI receptor (CD64) via its Fc domain. 2.4G2 mAb blocks non-antigen-specific binding of immunoglobulins to the FcyIII and FcyII, and possibly FcyI, receptors in vitro and in vivo. CD16 and/or CD32 are expressed on natural killer cells, monocytes, macrophages, dendritic cells (at low levels), Kupffer cells, granulocytes, mast cells, B lymphocytes, immature thymocytes, and some activated mature T lymphocytes.

This antibody is routinely tested by flow cytometric analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Two color analysis of the expression of CD16/CD32 on mouse spleen cells. C57BL/6 splenocytes were simultaneously stained with PE-conjugated anti-mouse CD3e mAb 145-2C11 (Cat. No. 553063/553064) and biotinylated 2.4G2 mAb, followed by Avidin-FITC (Cat. No. 554057). Flow cytometry was performed on a BD FACScan ™ flow cytometry system.

# Preparation and Storage

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

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed by gel filtration chromatography.

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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### Suggested Companion Products

Catalog Number	Name	Size	Clone
553989	PE Rat IgG2b, κ Isotype Control	0.1 mg	A95-1

#### **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 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.

#### References

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