Technical Data Sheet

Purified Rat Anti-Mouse CD16/CD32 (Mouse BD Fc Block™)

Product Information

Material Number: 553142
Alternate Name: Fcγ III/II Receptor
Size: 0.5 mg
Concentration: 0.5 mg/ml
Clone: 2.4G2
Immunogen: Mouse BALB/c Macrophage J774 Cell Line
Isotype: Rat IgG2b κ
Reactivity: Aqueous buffered solution containing ≤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 FcyIII receptor (CD64) via its Fc domain. 2.4G2 mAb blocks non-antigen-specific binding of immunoglobulins to the FcγIII and FcγII, and possibly FcγI, 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.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at 4°C.

Application Notes

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Recommended Assay Procedure:

To specifically stain cells bearing FcyII and FcyIII receptors for flow cytometric analysis: Incubate cell suspension with this antibody (≤1 μg/million cells) followed by an appropriate fluorochrome-conjugated second-step reagent.

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For country-specific contact information, visit bdbiosciences.com/how_to_order/

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To reduce Fc receptor-mediated binding by antibodies of interest or Fc receptor-mediated binding by PE-CY5 tandem dye conjugates to FcγII and FcγIII receptor-bearing mouse cells for flow cytometric analysis:

1. Preincubate cell suspension with Mouse BD Fc Block™ purified anti-mouse CD16/CD32 mAb 2.4G2 (eg, ≤ 1 µg/million cells in 100 µl) at 4°C for 5 minutes.
2. Add antibody of interest directly to preincubated cells in the presence of Mouse BD Fc Block™ (ie, Mouse BD Fc Block™ need not be washed off before staining cells).
3. If anti-Ig second-step is necessary, a reagent must be chosen which will not bind to Mouse BD Fc Block™ (eg, rat IgGκ, k).

For additional information on using Mouse BD Fc Block™, refer to our website protocol at http://www.bdbiosciences.com/pharmingen/protocols/Immunophenotyping.shtml

**Product Notices**

1. 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.
2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.

**References**


