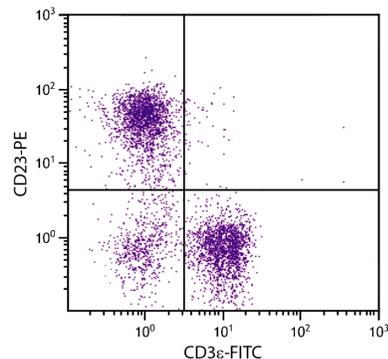




Rat Anti-Mouse CD23

| Cat. No. | Format | Size |
|----------|------------------------------------|--------|
| 1585-01 | Purified (UNLB) | 0.5 mg |
| 1585-02 | Fluorescein (FITC) | 0.5 mg |
| 1585-08 | Biotin (BIOT) | 0.5 mg |
| 1585-09 | R-phycoerythrin (PE) | 0.1 mg |
| 1585-09L | R-phycoerythrin (PE) | 0.2 mg |
| 1585-11 | Allophycocyanin (APC) | 0.1 mg |
| 1585-14 | Low Endotoxin, Azide-Free (LE/AF) | 0.5 mg |
| 1585-17 | R-phycoerythrin-Cyanine 7 (PE/CY7) | 0.1 mg |



BALB/c mouse splenocytes were stained with Rat Anti-Mouse CD23-PE (SB Cat. No. 1585-09) and Rat Anti-Mouse CD3 ϵ -FITC (SB Cat. No. 1535-02).

Overview

| | |
|--------------------------|---|
| Clone | 2G8 |
| Isotype | Rat (LOU/M) IgG _{2a} K |
| Immunogen | Fc ϵ R isolated from B cell lymphoma cell line M12.4.5 |
| Specificity | Mouse CD23; Mr 45-49 kDa |
| Alternate Name(s) | Fc ϵ RII, BLAST-2, low affinity IgE receptor, Ly-42 |

Description

The CD23 antigen is the low affinity IgE Fc receptor, which is a 45-49 kDa protein with 38 and 28 kDa fragments. It is expressed on most mature, conventional B cells (but not on peritoneal CD5⁺ B cells) and can also be found on the surface of T cells, macrophages and platelets. It is distinct from the high affinity IgE receptors found on basophils and mast cells which mediate allergic reactions. The low affinity receptors are thought to play a role in isotype specific immunoregulation. The regulation of CD23 surface expression appears to be integral with the complex IgE system which involves interactions of cells, cytokines, antibodies and regulatory factors. CD23 has been described as a "membrane bound cytokine," in that, the soluble cleavage products of CD23 are themselves able to act as cytokines *in vitro*.

Applications

FC – Quality tested ⁶⁻¹³
 IHC-FS – Reported in literature ²
 ELISA – Reported in literature ³⁻⁵

Working Dilutions

| | | |
|-----------------------|---|-------------------------------------|
| Flow Cytometry | Purified (UNLB) antibody | ≤ 1 μ g/10 ⁶ cells |
| | FITC and BIOT conjugates | ≤ 1 μ g/10 ⁶ cells |
| | PE, APC, and PE/CY7 conjugates | ≤ 0.1 μ g/10 ⁶ cells |
| | For flow cytometry, the suggested use of these reagents is in a final volume of 100 μ L | |

Other Applications Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.

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Handling and Storage

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL or 0.2 mg in 2.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The allophycocyanin (APC) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of PBS. Contains no preservative; handle under aseptic conditions. Store at 2-8°C or aliquot into smaller volumes and store at -20°C. Avoid multiple freeze / thaw cycles.
- The R-phycoerythrin-Cyanine 7 (PE/CY7) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific SDS.

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