

## PE anti-mouse CD40

**Catalog # / Size:** 124609 / 25 µg  
124610 / 100 µg

**Clone:** 3/23

**Isotype:** Rat IgG2a, κ

**Immunogen:** Recombinant mouse CD40 protein

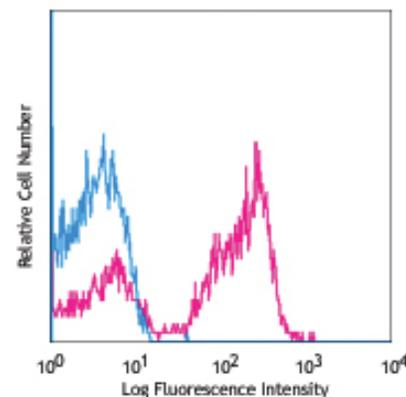
**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.2 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



BALB/c splenocytes stained with 3/23 PE

## Applications:

**Applications:** FC - Quality tested

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤1.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 124604). For highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 124628) with a lower endotoxin limit than standard LEAF™ purified antibodies (Endotoxin <0.01 EU/µg).

**Application References:** 1. Hasbold J, *et al.* 1994. *Eur. J. Immunol.* 24:1835.  
2. Bourgeois C, *et al.* 2002. *Science* 297:2060.

**Description:** CD40 is a 48 kD type I transmembrane glycoprotein also known as Bp50. It is a member of the tumor necrosis factor receptor (TNFR) superfamily and is expressed on B cells, basal epithelial cells, macrophages, follicular dendritic cells, endothelial cells, and a subset of CD34+ hematopoietic progenitors. CD40 regulates B cell development/maturation, Ig isotype switching and, in combination with other signals such as IL-4, protects B cells from surface Ig-induced apoptosis and promotes proliferation. Interaction of CD40 with its ligand CD154(gp39), which is expressed on activated T cells, is important in costimulation and immune regulation.

**Antigen References:** 1. Grewal IS, *et al.* 1998. *Annu Rev Immunol* 16:111.

### Related Products:

| Product                            | Clone   | Application   |
|------------------------------------|---------|---------------|
| PE Rat IgG2a, κ Isotype Ctrl       | RTK2758 | FC, ICFC      |
| Cell Staining Buffer               |         | FC, ICC, ICFC |
| RBC Lysis Buffer (10X)             |         | FC, ICFC      |
| TruStain fcX™ (anti-mouse CD16/32) | 93      | FC            |



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.



\*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, [www.biolegend.com/ordering#license](http://www.biolegend.com/ordering#license)). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.