

PE anti-human CD40

Catalog # / Size: 303605 / 25 tests
303606 / 100 tests

Clone: G28.5

Isotype: Mouse IgG1, κ

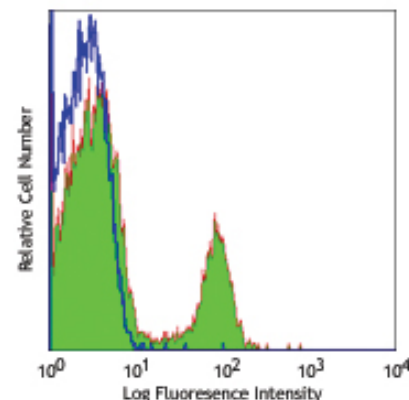
Workshop Number: V CD40.2

Reactivity: Human

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 and 0.2% (w/v) BSA (origin USA).

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



Human peripheral blood lymphocytes stained with G28.5 PE

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 μ l to 5 μ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 μ l staining volume or per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change.

Application Notes: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. Additional reported applications (for the relevant formats) include: B cell bioassays. Clone G28.5 has been shown to induce IgG production by B cells⁷. The G28.5 antibody has been reported to promote B cell proliferation in the presence of anti-IgM, IL-4 or PMA. The LEAF™ purified antibody (Endotoxin <0.1 EU/ μ g, Azide-Free, 0.2 μ m filtered) is recommended for functional assays (Cat. No. 303608). For highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 303614) with a lower endotoxin limit than standard LEAF™ purified antibodies (Endotoxin <0.01 EU/ μ g).

Application References:

- Schlossman S, *et al.* Eds. 1995. Leucocyte Typing V. Oxford University Press. New York.
- Banchereau J, *et al.* 1994. *Annu. Rev. Immunol.* 12:881. (FA)
- Gaspari A, *et al.* 1996. *Eur. J. Immunol.* 26:1371. (FA)
- Ebner S, *et al.* 2001. *J. Immunol.* 166:633. (FA)
- Lin-Lee YC, *et al.* 2006. *J. Biol. Chem.* 281:18878. (WB, IF)
- Jacobsen EM, *et al.* 2005. *Endocrinology* 146:2684. (FC)
- Alderson MR, *et al.* 1993. *J. Exp. Med.* 178:669.

Description: CD40 is a 48 kD type I glycoprotein also known as BP50. It is a member of the TNFR superfamily primarily expressed on B cells, macrophages, follicular dendritic cells, endothelial cells, fibroblasts, and at low levels on plasma cells. CD40 has been reported to be involved in B cell differentiation, costimulation, isotype class-switching, and protection from apoptosis. Additionally, CD40 is important for T cell-B cell interactions. The ligand of CD40 is CD154 (CD40 ligand).

Antigen References:

- Banchereau J, *et al.* 1994. *Annu. Rev. Immunol.* 12:881.
- Foy T, *et al.* 1996. *Annu. Rev. Immunol.* 14:591.

| Related Products: | Product | Clone | Application |
|-------------------|---|---------|---------------|
| | PE Mouse IgG1, κ Isotype Ctrl | MOPC-21 | FC, ICFC |
| | Cell Staining Buffer | | FC, ICC, ICFC |
| | RBC Lysis Buffer (10X) | | FC, ICFC |
| | PE anti-human CD154 | 24-31 | FC |
| | Human TruStain FcX™ (Fc Receptor Blocking Solution) | | FC, ICC, ICFC |



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