

Product Data Sheet

Purified anti-human CD40

Catalog # / Size: 303602 / 100 µg

Clone: G28.5

Isotype: Mouse IgG1, κ

Workshop Number: V CD40.2

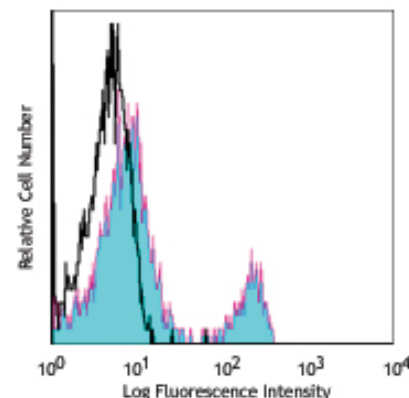
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography.

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

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.



Human peripheral blood lymphocytes stained with purified G28.5, followed by anti-mouse IgG FITC

Applications:

Applications: FC - *Quality tested*
 WB, IP - *Reported in the literature*

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 ≤0.125 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

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/µg, Azide-Free, 0.2 µm 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/µg).

Application References:

- Schlossman S, *et al.* 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.
- Crisci E, *et al.* 2012. *Vaccine.* 30:2427. PubMed.

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
Purified Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC, ICC, IF, IHC, IP, WB
APC Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	FC
Biotin Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	FC, ELISA, IHC, IF, WB
FITC Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	FC
PE Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	FC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
Purified anti-human CD154	24-31	FC, IF



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