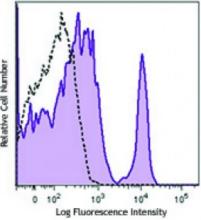
Product Data Sheet

PerCP/Cy5.5 anti-human CD40

Catalog # / Size:	2165065 / 25 tests 2165070 / 100 tests	Human peripheral bl lymphocytes were st CD40 (clone HB14) F (filled histogram) or PerCP/Cy5.5 isotype histogram).
Clone:	HB14	
Isotype:	Mouse lgG1, κ	
Reactivity:	Human	
Preparation:	The antibody was purified by affinity chromatography and conjugated with PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 and unconjugated antibody.	
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).	
Workshop Number:	V CD40.5	
Concentration:	Lot-specific	



boolc stained with PerCP/Cy5.5 [.] mouse IgG1, к e control (open histogram).

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	Additional reported applications (for the relevant formats) include: costimulation of B cell proliferation, partial inhibition of CD40 binding to CD40L, and prevention of B cell apoptosis.1 Alone, or in combination with TLR ligands, clone HIB14 stimulates B cells to produce IL-10 and differentiates it into regulatory B10 (IL-10 producing B cells). ⁷ The LEAF TM purified antibody (Endotoxin <0.1 EU/µg, Azide- Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 313010).
Application References:	 Pound JD, <i>et al.</i> 1999. <i>Int. Immunol.</i> 11:11. (Costim) Schlossman S, <i>et al.</i> Eds. 1995. Leucocyte Typing V. Oxford University Press. New York. Armengol MP, <i>et al.</i> 2001. <i>Am. J. Pathol.</i> 159:861. Cavanagh LL, <i>et al.</i> 2005. <i>Arthritis Res. Ther.</i> 7:R230. Jayakumar A, <i>et al.</i> 2008. <i>Infect Immun.</i>76:2138. <u>PubMed</u> Sestak K, <i>et al.</i> 2007. <i>Vet. Immunol. Immunopathol.</i> 119:21. Iwata Y, <i>et al.</i> 2011. <i>Blood.</i> 117:530. <u>PubMed</u>
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 of B cells from apoptosis. Additionally, CD40 is important for T cell-B cell interactions. The ligand of CD40 is CD154 (CD40 ligand). The HB14 antibody has been reported to promote B cell proliferation in the presence of anti-IgM, IL-4 or PMA, partially block CD40 binding to CD40L and

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rescue B cells from apoptosis.

 Antigen
 1. Banchereau J, et al. 1994. Annu. Rev. Immunol. 12:881.

 References:
 2. Foy T, et al. 1996. Annu. Rev. Immunol. 14:591.

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