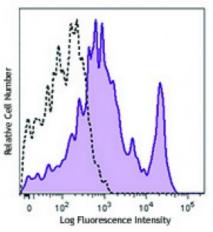
Product Data Sheet

PE/Cy7 anti-human CD40

Catalog # / Size:	2165055 / 25 tests 2165060 / 100 tests	
Clone:	HB14	
Isotype:	Mouse IgG1, κ	
Reactivity:	Human	
Preparation:	The antibody was purified by affinity chromatography and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.	
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).	ŀ
Workshop Number:	V CD40.5	 (
Concentration:	Lot-specific	r i



Human peripheral blood lymphocytes stained with CD40 (clone HB14) PE/Cy7 (filled histogram) or mouse IgG1, κ PE/Cy7 isotype 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 rescue B cells from apoptosis.	
energia vez entre Net for dis montio vez. Net for recels. Come Distantante la sulla set la bald recence		

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products. Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com
 Antigen
 1. Banchereau J, et al. 1994. Annu. Rev. Immunol. 12:881.

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

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products. Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com