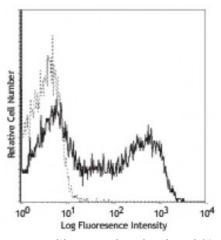
Product Data Sheet

Biotin anti-mouse CD154

Catalog # / Size:	1132515 / 50 μg
Clone:	MR1
Isotype:	Hamster IgG
Immunogen:	Activated mouse Th1 clone D1.6
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.5



PMA- and ionomycin-stimulated (6 hrs) BALB/c T cells stained with MR1 PE

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 ≤ 0.25 microg per 10 ⁶ cells in 100 microL volume It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	Additional reported applications (for the relevant formats) include: immunohistochemical staining ^{1,2} of acetone-fixed frozen sections, and <i>in vitro</i> and <i>in vivo</i> blocking of ligand binding ³⁻⁵ . For most successful immunofluorescent staining results, it may be important to maximize signal over background by using a relatively bright fluorochrome-antibody conjugate (Cat. No. 106506) or by using a high sensitivity, three-layer staining technique (e.g., including a biotinylated antibody (Cat. No. 106504) or biotinylated anti-Armenian hamster IgG (Cat. No. 405501) second step, followed by SAv-PE (Cat. No. 45204)). The LEAF [™] purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 106508).
Application References:	 Lettesjö H, <i>et al.</i> 2000. <i>J. Immunol.</i> 165:4095. (IHC) Dunn RJ, <i>et al.</i> 1997. <i>J. Histochem. Cytochem.</i> 45:129. (IHC) Noelle RJ, <i>et al.</i> 1992. <i>P. Natl. Acad. Sci. USA</i> 89:6550. (Block) Roy M, <i>et al.</i> 1995. <i>Eur. J. Immunol.</i> 25:596. (Block) Foy TM, <i>et al.</i> 1994. <i>J. Exp. Med.</i> 180:157. (Block) Lawson BR, <i>et al.</i> 2007. <i>J. Immunol.</i> 178:5366.
Description:	CD154 is a 39 kD TNF superfamily member also known as CD40 ligand, gp39, T- BAM, TRAP, and Ly-62. CD154 is an accessory molecule expressed predominantly on activated CD4 ⁺ lymphocytes that bind CD40. CD154 plays an important role in T-B cell costimulation. The MR1 antibody has been reported to inhibit the activation of T and B lymphocytes <i>in vitro</i> and antigen-specific lymphocyte responses <i>in vivo</i> .
Antigen	1. Barclay A, et al. 1997. The Leukocyte Antigen FactsBook Academic Press.

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References:	2. Noelle RJ, <i>et al.</i> 1992. <i>P. Natl. Acad. Sci. USA</i> 89:6550.
	3. Bancherou J, et al. 1994. Annu. Rev. Immunol. 12:881.

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