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Datasheet for 200-B26-N91

CD154 (CD40L) Allophycocyanin Antibody

Overview

Description:	Anti-CD154 (CD40L) (Armenian Hamster) Allophycocyanin Conjugated Monoclonal Antibody - 200-B26-N91
Item No.:	200-B26-N91
Size:	100 µg
Applications:	FC
Reactivity:	Mouse
Host Species:	Hamster Armenian

Product Details

Background:	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 in vitro and antigen-specific lymphocyte responses in vivo.
Synonyms:	CD40 ligand, CD40-L, T-cell antigen Gp39, TNF-related activation protein, TRAP, Tumor necrosis factor ligand superfamily member 5, CD154, Cd40lg, Cd40l, Tnfsf5
Host Species:	Hamster Armenian
Conjugate:	Allophycocyanine (APC)
Clonality:	Monoclonal
Clone ID:	MR1
Format:	IgG
F/P Ratio:	1-2

Target Details

Gene Name:	Cd40lg
Reactivity:	Mouse
Immunogen Type:	Other

Immunogen:	Anti-CD154 Antibody (Monoclonal) was produced by repeated immunizations with Activated mouse Th1 clone D1.6.
Purity/Specificity:	Allophycocyanin conjugated CD154 Monoclonal Antibody was purified from tissue culture supernatant via affinity chromatography and is directed against mouse CD154. Cross reactivity with CD154 from other sources has not been tested. Anti-CD154 is conjugated with APC under optimal conditions and the solution is free of unconjugated APC.
Relevant Links:	• UniProtKB - P27548 • NCBI - NP_035746.2 • GeneID - 21947

Application Details

Tested Applications:	FC
Application Note:	Anti-CD154 is tested for FLOW and useful for Immunohistochemistry using mouse spleen cells, or an appropriate cell type (where indicated). Researchers should determine optimal titers for applications that are not stated.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
FC:	10 µL/10^6 cells (0.1 µg)
IHC:	User Optimized

Formulation

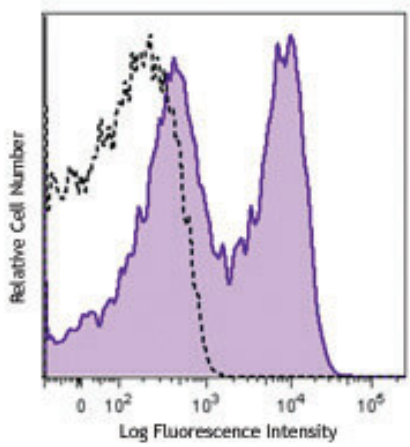
Physical State:	Liquid (sterile filtered)
Concentration:	0.2mg/mL Sufficient to run approximately 100 tests
Buffer:	0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at 4° C prior to opening. Dilute only prior to immediate use. This product is stable at 4° C as an undiluted liquid. Use subdued lighting during handling and incubation of cells prior to analysis. Store reagent in the dark. DO NOT FREEZE.

Expiration: Expiration date is six (6) months from date of receipt.

Images



Flow Cytometry
Flow Cytometry of anti-CD154 Allophycocyanin Conjugated Monoclonal Antibody. Cells: C57BL/6 mouse splenic T cells. Stimulation: stimulated with PMA + ionomycin for 6 hours. Antibody: (Dotted Line) APC Armenian Hamster IgG isotype control; (Solid Line) Allophycocyanin Anti-CD154 antibody.

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