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Datasheet for 200-302-N76

CD154 (CD40L) Fluorescein Antibody

Overview

Description:	Anti-CD154 (CD40L) (MOUSE) Monoclonal Antibody Fluorescein Conjugated - 200-302-N76
Item No.:	200-302-N76
Size:	500 µL
Applications:	FC
Reactivity:	Human
Host Species:	Mouse

Product Details

Background:	CD154 (CD40 ligand) is also known as CD40L, gp39, TRAP and T-BAM. CD40 ligand is a 32-39 kD type II transmembrane glycoprotein. It is a member of the TNF superfamily and is expressed on activated T cells. It has been reported to be important for B cell costimulation following binding of its receptor, CD40. Additionally, binding of CD40L to CD40 on B cells promotes the secretion of immunoglobulin and Ig isotype switching. CD40L is also involved in the regulation of cytokine production by T cells.
Synonyms:	CD40 ligand, CD40-L, T-cell antigen Gp39, TNF-related activation protein, TRAP, Tumor necrosis factor ligand superfamily member 5, CD40LG, CD40L, TNFSF5, TRAP
Host Species:	Mouse
Conjugate:	Fluorescein (FITC)
Clonality:	Monoclonal
Clone ID:	Clone 24-31
Format:	IgG1
F/P Ratio:	4-6

Target Details

Gene Name:	CD40LG
Reactivity:	Human

Immunogen:	Anti-CD154 Antibody (Monoclonal) was produced by repeated immunizations with CD154 antigen.
Purity/Specificity:	Fluorescein conjugated CD154 Monoclonal Antibody was purified from tissue culture supernatant via affinity chromatography and is directed against human CD154. Reactivity is observed against human CD154. Cross reactivity is observed with Cynomolgus and Rhesus. Reactivity with CD154 from other sources has not been tested. Anti-CD154 is conjugated with FITC under optimal conditions and the solution is free of unconjugated FITC.
Relevant Links:	• UniProtKB - P29965 • NCBI - NP_000065.1 • GeneID - 959

Application Details

Tested Applications:	FC
Application Note:	Anti-CD154 is tested for Flow Cytometry and is useful for Immunofluorescence. 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:	5 uL/test/1x10e5 to 1x10e8 cells
IF:	User Optimized

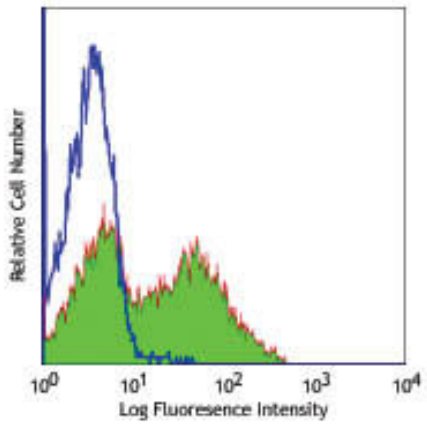
Formulation

Physical State:	Liquid (sterile filtered)
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	0.2% BSA (w/v)

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at 4° C prior to opening. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. DO NOT FREEZE. This product is light sensitive.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



Flow Cytometry
Flow Cytometry of Mouse anti-CD154 Fluorescein Conjugated Monoclonal Antibody. Cells: Human peripheral blood monocytes. Stimulation: TPA+ ionomycin (6 hrs). Antibody: (Blue) FITC Mouse IgG1 isotype control; (Green) Fluorescein Anti-CD154 mouse antibody using 5 ul.

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