

APC/Cyanine7 anti-mouse CD154 (CD40L) Antibody

Catalog# / Size	157011 / 25 µg 157012 / 100 µg
Clone	SA047C3
Regulatory Status	RUO
Other Names	CD40L, gp39, TRAP, T-BAM, TNFSF5, CD40 Ligand
Isotype	Rat IgG2a, κ
Description	CD154 has been known 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 and Ig class switching.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	mCD40L-transfectants
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography and conjugated with APC/Cyanine7 under optimal conditions.
Concentration	0.2 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
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 ≤ 1.0 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Red Laser (633 nm)
RRID	AB_2922486 (BioLegend Cat. No. 157011) AB_2922486 (BioLegend Cat. No. 157012)

Antigen Details

Structure	A 39 kD TNF superfamily member
Distribution	Surface activated CD4 ⁺ T cells, B cells, macrophages, dendritic cells, mast cells, NK cells, polymorphs, monocytes, and activated platelets.
Function	Survival signaling to CD40 ⁺ B cells and Ig class switching.
Ligand/Receptor	CD40
Cell Type	B cells, Basophils, Dendritic cells, Fibroblasts, Macrophages, Mast cells, NK cells, Platelets, T cells
Biology Area	Costimulatory Molecules, Immunology

Molecular Family CD Molecules

Gene ID [959](#)

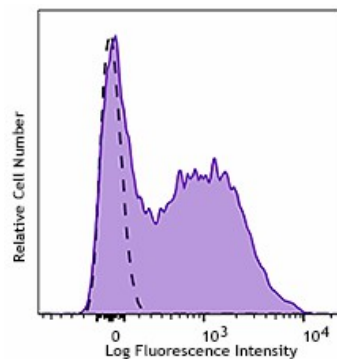
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse CD154 (CD40L), PE/Cyanine7 anti-mouse CD154 (CD40L), PE anti-mouse CD154 (CD40L), FITC anti-mouse CD154 (CD40L), APC anti-mouse CD154 (CD40L) Antibody, APC/Cyanine7 anti-mouse CD154 (CD40L), APC/Fire™ 750 anti-mouse CD154 (CD40L), PE/Dazzle™ 594 anti-mouse CD154 (CD40L), KIRAVIA Blue 520™ anti-mouse CD154 (CD40L)

Product Data



Enriched BALB/c mouse splenic T cells were stimulated with Cell Activation Cocktail (without Brefeldin A) (Cat. No.423301) for 6 hours and stained with anti-mouse CD154 (CD40L) (clone SA047C3) APC/Cyanine7 (filled histogram) or rat IgG2a, κ APC/Cyanine7 isotype control (open histogram).

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