

## APC anti-mouse CD154 (CD40L) Antibody

<b>Catalog# / Size</b>	157009 / 25 µg 157010 / 100 µg
<b>Clone</b>	SA047C3
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	CD40L, gp39, TRAP, T-BAM, TNFSF5, CD40 Ligand
<b>Isotype</b>	Rat IgG2a, κ
<b>Description</b>	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 <sup>+</sup> lymphocytes that bind CD40. CD154 plays an important role in T-B cell costimulation and Ig class switching.

### Product Details

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<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Immunogen</b>	mCD40L-transfectants
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.
<b>Concentration</b>	0.2 mg/mL
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is ≤ 0.5 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Excitation Laser</b>	Red Laser (633 nm)
<b>RRID</b>	AB_2890718 (BioLegend Cat. No. 157009) AB_2890718 (BioLegend Cat. No. 157010)

### Antigen Details

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

**Molecular Family** CD Molecules

**Gene ID** [959](#)

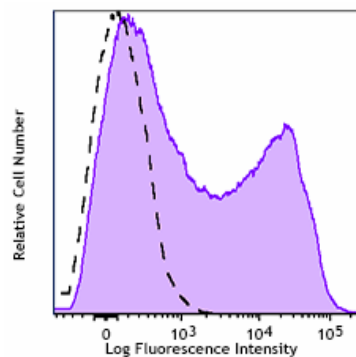
## Related Protocols

[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 PMA plus ionomycin for 6 hours and then stained with anti-mouse CD154 (CD40L) (clone SA047C3) APC (filled histogram) or rat IgG2a,  $\kappa$  APC isotype control (open histogram).

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