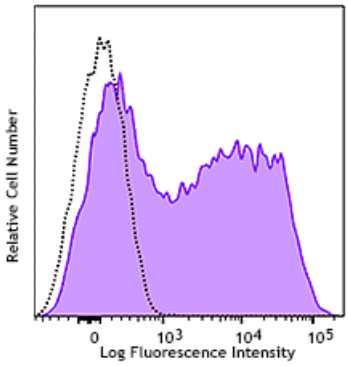
SONY

Product Data Sheet

PE anti-mouse CD154 (CD40L)

Catalog # / Size:	1385020 / 100 µg 1385015 / 25 µg
Clone:	SA047C3
Isotype:	Rat IgG2a, κ
Immunogen:	mCD40L-transfectants
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Workshop Number:	HCDM listed
Concentration:	0.2 mg/ml



Enriched BALB/c mouse splenic T cells were stimulated with PMA plus ionomycin for 6 hours and then stained with mouse CD154 (CD40L) (clone SA047C3) PE (flled histogram) or rat IgG2a, κ PE isotype control (open histogram).

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 ≤ 0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	**ELISA Capture[2]:** The purified MH9A4 antibody is useful as the capture antibody in a human IL-9 sandwich ELISA assay, when used in conjunction with the biotinylated MH9D1 antibody as the detecting antibody.

Application References:

1. Dent AL, *et al.* 1990. *Nature* 343:714.
2. Kelly KA, *et al.* 1993. *Int. Immunol.* 5:331.
3. Sperling AI, *et al.* 1992. *J. Immunol.* 149:3200.
4. Sperling AI, *et al.* 1997. *J. Immunol.* 159:86.

Description: CD154 has been kown 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.

Antigen References:

1. Farber JM. 1997. *J. Leukoc. Biol.* 61(3):\246-57.
2. Bonecchi R, *et al.* 1998. *J. Exp. Med.* 187(1):129-34.
3. Aota K, *et al.* 2018. *J. Oral. Pathol. Med.* 12756.
4. Kim B, *et al.* 2018. *Data. Brief.* 18:518-522.
5. Saahene RO, *et al.* 2018. *Cancer Biother. Radiopharm.* 2450.

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