

Datasheet for ABIN1177324
anti-CD40 Ligand antibody



[Go to Product page](#)

1 Image 3 Publications

Overview

Quantity:	0.5 mg
Target:	CD40 Ligand (CD40LG)
Reactivity:	Human, Rhesus Monkey, Baboon, Cynomolgus
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD40 Ligand antibody is un-conjugated
Application:	Flow Cytometry (FACS), Functional Studies (Func)

Product Details

Brand:	BD Pharmingen™
Clone:	TRAP1
Isotype:	IgG1 kappa
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Sterility:	0.2 µm filtered
Endotoxin Level:	Endotoxin level is ≤ 0.01 EU/µg (≤ 0.001 ng/µg) of protein as determined by the LAL assay.

Target Details

Target:	CD40 Ligand (CD40LG)
Alternative Name:	CD154 (CD40LG Products)

Target Details

Background:	Reacts with CD40 ligand (CD40L), a 39 kDa type II membrane glycoprotein expressed on activated T cells. CD40-CD40L interaction plays a very important role in T cell-dependent B-cell proliferation, differentiation, and memory cell formation. Anti-CD40L mAb partially blocks T cell-B cell interaction affecting subsequent proliferation, differentiation, and memory cell formation. Anti-CD40L mAb partially blocks T cell-B cell interaction affecting subsequent proliferation, IL-2R expression and differentiation of B cells. In addition, blocking of CD40-CD40L interaction has been demonstrated with soluble CD40, resulting in the inhibition of immunoglobulin isotype switching. It has been reported that patients with X-linked hyper-IgM syndrome have defective expression of functional CD40L due to a defective gene that encodes CD40L. Synonyms: CD40L
Pathways:	NF-kappaB Signaling , Production of Molecular Mediator of Immune Response , Cancer Immune Checkpoints

Application Details

Restrictions:	For Research Use only
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Handling

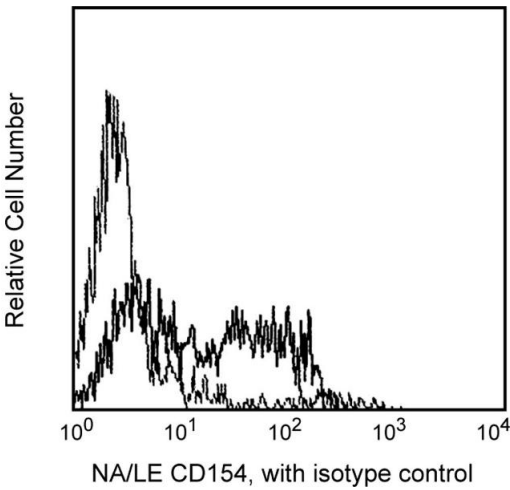
Format:	Liquid
Concentration:	1.0 mg/mL
Buffer:	No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2µm sterile filtered.
Preservative:	Azide free
Storage:	4 °C
Storage Comment:	Store undiluted at 4°C. This preparation contains no preservatives, thus it should be handled under aseptic conditions.

Publications

Product cited in:	Fuleihan, Ramesh, Horner, Ahern, Belshaw, Alberg, Stamenkovic, Harmon, Geha: "Cyclosporin A inhibits CD40 ligand expression in T lymphocytes." in: The Journal of clinical investigation, Vol. 93, Issue 3, pp. 1315-20, (1994) (PubMed). Gray, Dullforce, Jainandunsing: "Memory B cell development but not germinal center formation
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is impaired by in vivo blockade of CD40-CD40 ligand interaction." in: **The Journal of experimental medicine**, Vol. 180, Issue 1, pp. 141-55, (1994) ([PubMed](#)).

Nishioka, Lipsky: "The role of CD40-CD40 ligand interaction in human T cell-B cell collaboration." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 153, Issue 3, pp. 1027-36, (1994) ([PubMed](#)).



Flow Cytometry

Image 1.