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Datasheet for ABIN2749183 anti-CD40 Ligand antibody

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Overview

Quantity:	0.1 mg
Target:	CD40 Ligand (CD40LG)
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD40 Ligand antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunocytochemistry (ICC)
Product Details	
Immunogen:	human CD154 fusion protein
Clone:	24-31
lsotype:	lgG1
Specificity:	The mouse monoclonal antibody 24-31 detects an extracellular epitope of CD154 / CD40L

	(CD40-ligand), a 39 kDa cell surface type II glycoprotein expressed predominantly on activated
	CD4+ lymphocytes.
Cross-Reactivity (Details):	Human, Non-Human Primates

Purification: Purified by protein-A affinity chromatography.

Purity: > 95 % (by SDS-PAGE)

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Target Details	
Target:	CD40 Ligand (CD40LG)
Alternative Name:	CD154 / CD40L (CD40LG Products)
Background:	CD40 ligand,CD154 / CD40L (CD40 ligand) is a member of the tumor necrosis factor family, and is expressed primarily on activated CD4+ lymphocytes, but also on mast cells, basophils, eosinophils and human dendritic cells. Its counter-receptor CD40 is expressed on antigen presenting cells, including dendritic cells, macrophages, and B cells, and also on fibroblasts. Triggering of CD40 by CD40L causes maturation of dendritic cells and upregulation of antigen presentation in functions of the MHC and costimulatory molecules. CD40L also functions as a direct stimulating factor for T cells. CD40L plays also roles e.g. in antibody class switching and modulation of apoptosis in the germinal center.,CD40L, CD40 ligand, TNFSF5, Ly62, gp39, T- BAM
Gene ID:	21947
UniProt:	P27548
Pathways:	NF-kappaB Signaling, Production of Molecular Mediator of Immune Response, Cancer Immune Checkpoints
Application Details	
Application Notes:	Flow cytometry: Recommended dilution: 2-6 µg/mL.
Restrictions:	For Research Use only
Handling	
Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.
Publications	

Product cited in:

Brams, Black, Padlan, Hariharan, Leonard, Chambers-Slater, Noelle, Newman: "A humanized

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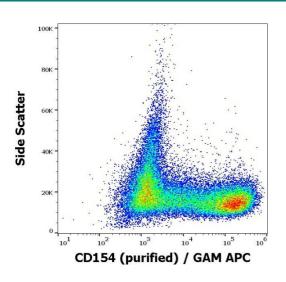
Berner, Wolf, Hummel, Müller, Reuss-Borst: "Increased expression of CD40 ligand (CD154) on CD4+ T cells as a marker of disease activity in rheumatoid arthritis." in: **Annals of the rheumatic diseases**, Vol. 59, Issue 3, pp. 190-5, (2000) (PubMed).

Barnhart, Ford, Bhushan, Song, Covey: "A polymorphic CD40 ligand (CD154) molecule mediates CD40-dependent signalling but interferes with the ability of soluble CD40 to functionally block CD154:CD40 interactions." in: **Immunology**, Vol. 99, Issue 1, pp. 54-61, (2000) (PubMed).

Grammer, McFarland, Heaney, Darnell, Lipsky: "Expression, regulation, and function of B cellexpressed CD154 in germinal centers." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 163, Issue 8, pp. 4150-9, (1999) (PubMed).

Kornbluth, Kee, Richman: "CD40 ligand (CD154) stimulation of macrophages to produce HIV-1suppressive beta-chemokines." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 95, Issue 9, pp. 5205-10, (1998) (PubMed).

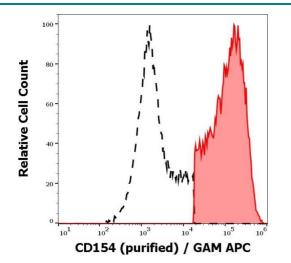
Images



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human stimulated (PMA + ionomycin) peripheral blood mononuclear cells stained using anti-human CD154 (24-31) purified antibody (concentration in sample 2 µg/mL) GAM APC.

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Flow Cytometry

Image 2. Separation of human CD154 positive cells (redfilled) from CD154 negative cells (black-dashed) in flow cytometry analysis (surface staining) of stimulated (PMA + ionomycin) peripheral blood mononuclear cells stained using anti-human CD154 (24-31) purified antibody (concentration in sample 2 µg/mL) GAM APC.

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