

CD154 Antibody | anti-CD154 antibody

Anti-Hu CD154 APC

CATALOG # AAA129301	REACTIVITY Human, Non-human primates	APPLICATIONS Flow Cytometry, Functional Assay
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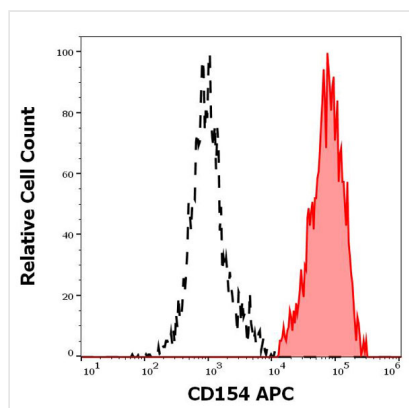
PRODUCT SYNONYMS

CD154; Anti-Hu CD154 APC; CD40 ligand; CD40L; TNFSF5; Ly62; gp39; T-BAM; anti-CD154 antibody

PRODUCT SPECIFICATIONS

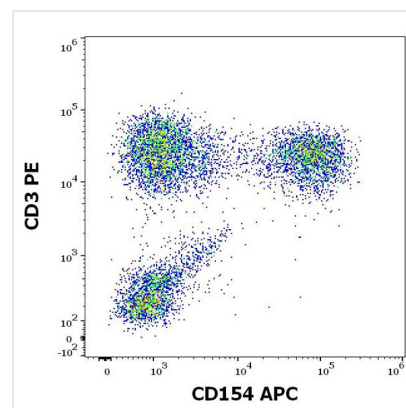
Reactivity	Human, Non-human primates
Isotype	Mouse IgG1
Clone Number	24-31
Specificity	The mouse monoclonal antibody 24-31 detects an extracellular epitope of CD154/CD40L (CD40-ligand), a 39 kDa cell surface type II glycoprotein expressed predominantly on activated CD4+ lymphocytes.
Form/Format	APC Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography. Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 m
Applicable Applications for anti-CD154 antibody	FCM/FACS (Flow Cytometry)
Immunogen	human CD154 fusion protein
Preparation and Storage	Store at 2-8 degree C. Protect from prolonged exposure to light. Do not freeze.

IMAGES



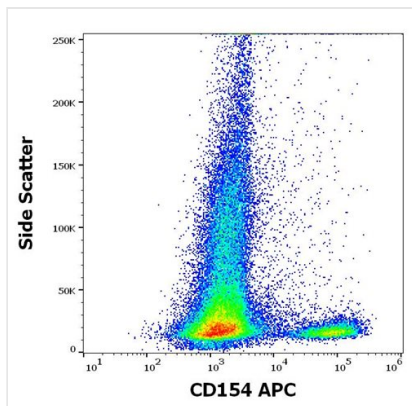
FCM/FACS (Flow Cytometry)

Separation of human lymphocytes (red-filled) from blood debris (black-dashed) in flow cytometry analysis (surface staining) of human stimulated (PHA + ionomycin) peripheral blood mononuclear cells stained using anti-human CD154 (24-31) APC antibody (10 μ l reagent per million cells in 100 μ l of cell suspension).



FCM/FACS (Flow Cytometry)

Flow cytometry multicolor surface staining pattern of human lymphocytes using anti-human CD154 (24-31) APC antibody (10 μ l reagent per million cells in 100 μ l of cell suspension) and anti-human CD3 (UCHT1) PE antibody (20 μ l reagent per million cells in 100 μ l of cell suspension).



FCM/FACS (Flow Cytometry)
Flow cytometry surface staining pattern of human stimulated (PHA + ionomycin) peripheral blood mononuclear cells stained using anti-human CD154 (24-31) APC antibody (10 ?l reagent per million cells in 100 ?l of cell suspension).

ADDITIONAL INFORMATION

Related Product Information for anti-CD154 antibody	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.
References	*Brams P, Black A, Padlan EA, Hariharan K, Leonard J, Chambers-Slater K, Noelle RJ, Newman R: A humanized anti-human CD154 monoclonal antibody blocks CD154-CD40 mediated human B cell activation. <i>Int Immunopharmacol.</i> 2001 Feb;1(2):277-94., URL: http://www.ncbi.nlm.nih.gov/pubmed/?term=brams+p+black+a+padlan+ea, *Berner B, Wolf G, Hummel KM, Müller GA, Reuss-Borst MA: Increased expression of CD40 ligand (CD154) on CD4+ T cells as a marker of disease activity in rheumatoid arthritis. <i>Ann Rheum Dis.</i> 2000 Mar;59(3):190-5., URL: http://www.ncbi.nlm.nih.gov/pubmed/?term=berner+b+wolf+g, *Barnhart B, Ford GS, Bhushan A, Song C, Covey LR: A polymorphic CD40 ligand (CD154) molecule mediates CD40-dependent signalling but interferes with the ability of soluble CD40 to functionally block CD154:CD40 interactions. <i>Immunology.</i> 2000 Jan;99(1):54-61., URL: http://www.ncbi.nlm.nih.gov/pubmed/10651941, *Kornbluth RS, Kee K, Richman DD: CD40 ligand (CD154) stimulation of macrophages to produce HIV-1-suppressive beta-chemokines. <i>Proc Natl Acad Sci U S A.</i> 1998 Apr 28;95(9):5205-10., URL: http://www.ncbi.nlm.nih.gov/pubmed/9560254, *Grammer AC, McFarland RD, Heaney J, Darnell BF, Lipsky PE: Expression, regulation, and function of B cell-expressed CD154 in germinal centers. <i>J Immunol.</i> 1999 Oct 15;163(8):4150-9., URL: http://www.ncbi.nlm.nih.gov/pubmed/?term=grammer+ac+heaney+j, *Fernandes MS, Gomes EM, Butcher LD, Hernandez-Alcoceba R, Chang D, Kansopon J, Newman J, Stone MJ, Tong AW: Growth inhibition of human multiple myeloma cells by an oncolytic adenovirus carrying the CD40 ligand transgene. <i>Clin Cancer Res.</i> 2009 Aug 1;15(15):4847-56., URL: https://pubmed.ncbi.nlm.nih.gov/19622582/, *Kum WW, Hung RW, Cameron SB, Chow AW: Temporal sequence and functional implications of V beta-specific T cell receptor down-regulation and costimulatory molecule expression following in vitro stimulation with the staphylococcal superantigen Toxic shock syndrome toxin-1. <i>J Infect Dis.</i> 2002 Feb 15;185(4):555-60, URL: http://www.ncbi.nlm.nih.gov/pubmed/11865410,

NCBI AND UNIPROT INFORMATION

NCBI GI #	15011846
NCBI GeneID	21947
NCBI Accession #	NP_035746.2
NCBI GenBank Nucleotide #	NM_011616.2
UniProt Accession #	P27548
Molecular Weight	29,370 Da

NCBI Official Full Name	CD40 ligand
NCBI Official Synonym Full Names	CD40 ligand
NCBI Official Symbol	Cd40lg
NCBI Official Synonym Symbols	IGM; IMD3; Ly62; TRAP; gp39; CD154; Cd40l; HIGM1; Ly-62; T-BAM; CD40-L; Tnfsf5; Tnlg8b
NCBI Protein Information	CD40 ligand
UniProt Protein Name	CD40 ligand
UniProt Gene Name	Cd40lg
UniProt Synonym Gene Names	Cd40l; Tnfsf5; CD40-L; TRAP
UniProt Entry Name	CD40L_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/human-primate-antibody/cd154/129301>