ARG41606
anti-CD154 / CD40L antibody [24-31]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [24-31] recognizes CD154 / CD40L
Tested Reactivity	Hu, NHuPrm
Tested Application	FACS, ICC/IF
Host	Mouse
Clonality	Monoclonal
Clone	24-31
Isotype	IgG1
Target Name	CD154 / CD40L
Species	Human
Immunogen	Human CD154 fusion protein.
Conjugation	Un-conjugated
Alternate Names	TNFSF5; IMD3; T-cell antigen Gp39; HIGM1; CD40-L; gp39; CD40 ligand; Tumor necrosis factor ligand superfamily member 5; CD40L; CD154; TRAP; CD antigen CD154; hCD40L; IGM; T-BAM; TNF-related activation protein

Application Instructions

Application table

Application	Dilution
FACS	2 - 6 µg/ml
ICC/IF	Assay-dependent

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

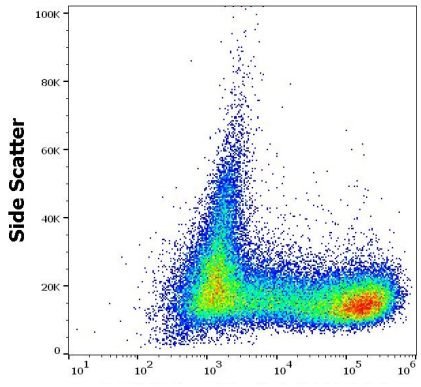
Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS and 15 mM Sodium azide.
Preservative	15 mM Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

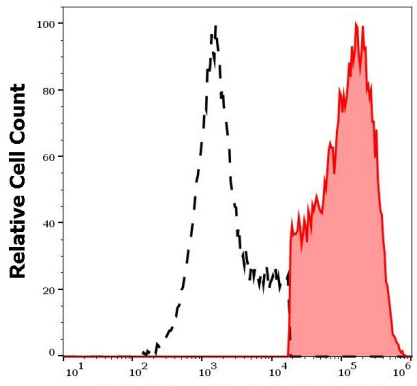
Gene Symbol	CD40LG
Gene Full Name	CD40 ligand
Background	The protein encoded by this gene is expressed on the surface of T cells. It regulates B cell function by engaging CD40 on the B cell surface. A defect in this gene results in an inability to undergo immunoglobulin class switch and is associated with hyper-IgM syndrome. [provided by RefSeq, Jul 2008]
Function	Mediates B-cell proliferation in the absence of co-stimulus as well as IgE production in the presence of IL-4. Involved in immunoglobulin class switching. Release of soluble CD40L from platelets is partially regulated by GP IIb/IIIa, actin polymerization, and an matrix metalloproteinases (MMP) inhibitor-sensitive pathway. [UniProt]
Calculated Mw	29 kDa
PTM	The soluble form derives from the membrane form by proteolytic processing. N-linked glycan is a mixture of high mannose and complex type. Glycan structure does not influence binding affinity to CD40. Not O-glycosylated. [UniProt]
Cellular Localization	Cell membrane; Single-pass type II membrane protein. Cell surface. CD40 ligand, soluble form: Secreted. [UniProt]

Images



ARG41606 anti-CD154 / CD40L antibody [24-31] FACS image

Flow Cytometry: Human stimulated (PMA + ionomycin) peripheral blood mononuclear cells stained with ARG41606 anti-CD154 / CD40L antibody [24-31] at 2 µg/ml dilution, followed by APC-conjugated Goat anti-Mouse antibody.



ARG41606 anti-CD154 / CD40L antibody [24-31] FACS image

Flow Cytometry: Separation of human CD154 positive cells (red-filled) from CD154 negative cells (black-dashed). Stimulated (PMA + ionomycin) peripheral blood mononuclear cells stained with ARG41606 anti-CD154 / CD40L antibody [24-31] at 2 µg/ml dilution, followed by APC-conjugated Goat anti-Mouse antibody.