

ARG62737 anti-CD154 / CD40L antibody [MR-1] (FITC)

Package: 100 μg Store at: 4°C

Summary

Product Description	FITC-conjugated Hamster Monoclonal antibody [MR-1] recognizes CD154 / CD40L		
Tested Reactivity	Ms		
Tested Application	BL, ELISA, FACS, IHC-Fr		
Host	Hamster		
Clonality	Monoclonal		
Clone	MR-1		
Isotype	lgG3		
Target Name	CD154 / CD40L		
Species	Mouse		
Immunogen	Activated mouse Th1 clone D1.6		
Conjugation	FITC		
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
	BL	Assay-dependent
	ELISA	Assay-dependent
	FACS	< 2 µg/10^6 cells
	IHC-Fr	Assay-dependent
Application Note	* The dilutions indicate recomme should be determined by the scie	ended starting dilutions and the optimal dilutions or concentrations entist.

Properties

Form	Liquid	
Buffer	PBS and 0.1% Sodium azide.	
Preservative	0.1% Sodium azide	
Concentration	0.5 mg/ml	
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.	

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Database links	GenelD: 21947 Mouse
	Swiss-port # P27548 Mouse
Gene Symbol	Cd40lg
Gene Full Name	CD40 ligand
Background	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.
Function	Cytokine that binds to TNFRSF5. 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 (By similarity). [UniProt]
Research Area	Cell Biology and Cellular Response antibody; Developmental Biology antibody; Immune System antibody
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.

Images



ARG62737 anti-CD154 / CD40L antibody [MR-1] (FITC) FACS image

Flow Cytometry: PMA and lonomycin-stimulated BALB/c Mouse splenocytes stained with ARG62737 anti-CD154 / CD40L antibody [MR-1] (FITC), ARG65448 anti-CD4 antibody [GK1.5] (PE) and ARG62941 anti-CD8a antibody [53-6.7] (PE).