

ARG65514 anti-CD154 / CD40L antibody [MR-1]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Hamster Monoclonal antibody [MR-1] recognizes CD154 / CD40L
Tested Reactivity	Ms
Tested Application	CyTOF®-candidate, FACS, FuncSt, ICC/IF, IHC-P, IP
Specificity	The clone MR-1 detects mouse CD154 / CD40L (CD40-ligand), a 39 kDa cell surface type II glycoprotein expressed predominantly on activated CD4+ lymphocytes.
Host	Hamster
Clonality	Monoclonal
Clone	MR-1
Isotype	IgG1
Target Name	CD154 / CD40L
Species	Mouse
Immunogen	Activated mouse Th1 clone D1.6
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
	CyTOF®-candidate	Assay-dependent
	FACS	4 µg/ml
	FuncSt	Assay-dependent
	ICC/IF	Assay-dependent
	IHC-P	Assay-dependent
	IP	Assay-dependent
Application Note	Functional studies: Blocking T cell costimulation in vivo. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	FACS: 6-8 hours activated mouse splenocytes.	

Properties

Form	Liquid
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Purification	Purified by protein A
Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4) 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

Database links	GeneID: 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]
Highlight	Related products: CD154 antibodies ; CD154 ELISA Kits ; Anti-Hamster IgG secondary antibodies ; Related news: CyTOF-candidate Antibodies
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.