

ARG41609 anti-CD154 / CD40L antibody [CD40LG/2761]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [CD40LG/2761] recognizes CD154 / CD40L
Tested Reactivity	Hu
Tested Application	FACS, ICC/IF, IHC-P
Host	Mouse
Clonality	Monoclonal
Clone	CD40LG/2761
Isotype	IgG2b, kappa
Target Name	CD154 / CD40L
Species	Human
Immunogen	Protein fragment corresponding to aa. 108-261 of Human CD154.
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	1 - 2 µg/10 ⁶ cells
	ICC/IF	1 - 2 µg/ml
	IHC-P	1 - 2 µg/ml
Application Note	IHC-P: Antigen Retrieval: Boil tissue section in 10 mM Citrate buffer (pH 6.0) for 10-20 min, followed by cooling at RT for 20 min. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

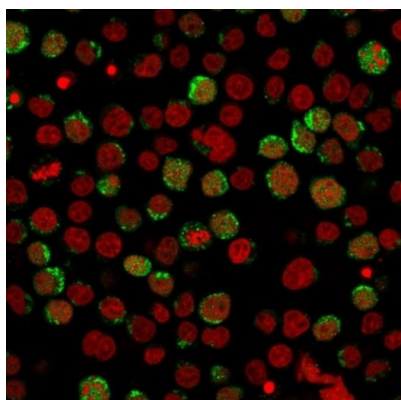
Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS, 0.05% Sodium azide and 0.1 mg/ml BSA.
Preservative	0.05% Sodium azide
Stabilizer	0.1 mg/ml BSA
Concentration	0.2 mg/ml

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

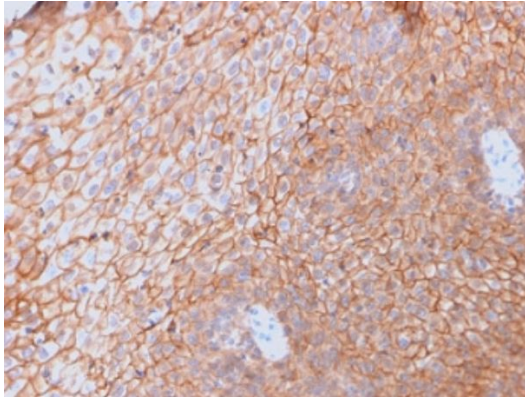
Gene Symbol	CD40LG
Gene Full Name	CD40 ligand
Background	The protein encoded by this gene is expressed on the surface of T cells. It regulates B cell function by engaging CD40 on the B cell surface. A defect in this gene results in an inability to undergo immunoglobulin class switch and is associated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

Images



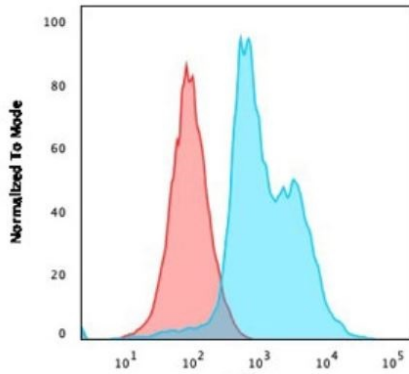
ARG41609 anti-CD154 / CD40L antibody [CD40LG/2761] ICC/IF image

Immunofluorescence: Paraformaldehyde-fixed Jurkat cells stained with ARG41609 anti-CD154 / CD40L antibody [CD40LG/2761] (green) and Reddot nuclear stain (red).



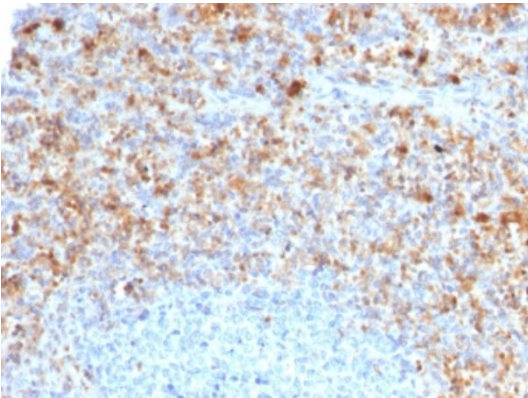
ARG41609 anti-CD154 / CD40L antibody [CD40LG/2761] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human spleen tissue stained with ARG41609 anti-CD154 / CD40L antibody [CD40LG/2761]. Antigen Retrieval: Boil tissue section in 10 mM Citrate buffer (pH 6.0) for 10-20 min followed by cooling at RT for 20 min.



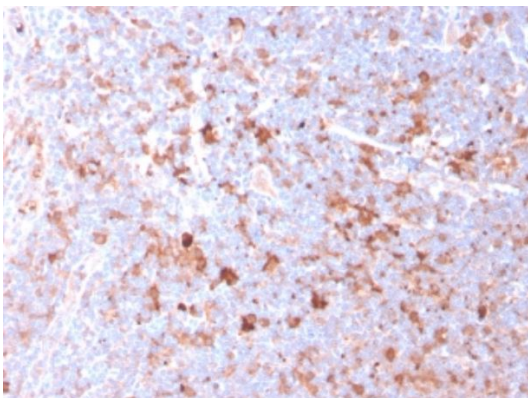
ARG41609 anti-CD154 / CD40L antibody [CD40LG/2761] FACS image

Flow Cytometry: Jurkat cells stained with ARG41609 anti-CD154 / CD40L antibody [CD40LG/2761] (blue) or isotype control antibody (red), followed by incubation with FITC labelled secondary antibody.



ARG41609 anti-CD154 / CD40L antibody [CD40LG/2761] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human spleen tissue stained with ARG41609 anti-CD154 / CD40L antibody [CD40LG/2761]. Antigen Retrieval: Boil tissue section in 10 mM Citrate buffer (pH 6.0) for 10-20 min followed by cooling at RT for 20 min.



ARG41609 anti-CD154 / CD40L antibody [CD40LG/2761] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human tonsil tissue stained with ARG41609 anti-CD154 / CD40L antibody [CD40LG/2761]. Antigen Retrieval: Boil tissue section in 10 mM Citrate buffer (pH 6.0) for 10-20 min followed by cooling at RT for 20 min.