

DATASHEET

CD154 Mouse Monoclonal Antibody(M91)

CAT. NO. AMA03821

KEY FEATURES

Target	CD154	Source / Host	Mouse
Reactivity	Human	Clonality	Monoclonal
Applications	WB, IF/ICC, FC	Conjugation	Unconjugated
Form / Buffer	Mouse IgG1. Liquid in PBS, pH 7.3, and 0.02% sodium azide.	Storage	at-20°C

BACKGROUND

Cytokine that acts as a ligand to CD40/TNFRSF5 . Costimulates T-cell proliferation and cytokine production . Its cross-linking on T-cells generates a costimulatory signal which enhances the production of IL4 and IL10 in conjunction with the TCR/CD3 ligation and CD28 costimulation . Induces the activation of NF-kappa-B . Induces the activation of kinases MAPK8 and PAK2 in T-cells . Induces tyrosine phosphorylation of isoform 3 of CD28 . Mediates B-cell proliferation in the absence of co-stimulus as well as IgE production in the presence of IL4 . Involved in immunoglobulin class switching .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IF/ICC	1:50 - 1:200
FC	1:500 - 1:2000

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Mouse monoclonal antibody to CD154
Specificity	Recognizes human CD154
Antibody Type	Primary antibody
Immunogen	Native purified human CD154.
Purification	The antibody was purified by affinity chromatography.
Molecular Weight	Predicted: 29 kD; Observed: 36 kD
Form/Buffer	Mouse IgG1. Liquid in PBS, pH 7.3, and 0.02% sodium azide.
Alternative Names	CD40L; TNFSF5; TRAP; CD40 ligand; CD40-L; T-cell antigen Gp39; TNF-related activation protein; TRAP; Tumor necrosis factor ligand superfamily member 5; CD antigen CD154)
Gene Symbol	CD40LG
Entrez Gene	959(Human)
SwissProt	P29965(Human)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

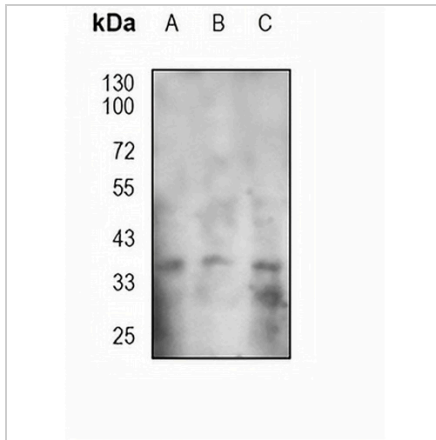
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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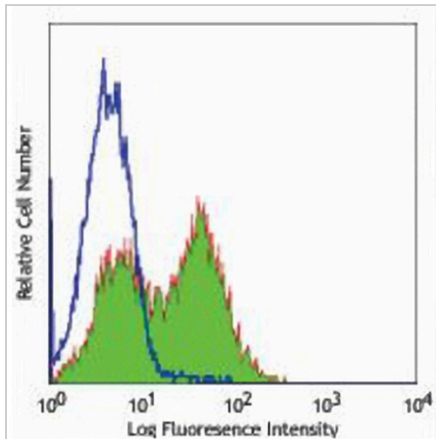
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Western blot analysis of CD154 expression in A2780 (A), U87 (B), A375 (C) whole cell lysates. (Predicted band size: 29 kD; Observed band size: 36 kD)



Flow cytometric analysis of PBMC cells treated with PHA and Ionomycin for 5 hours using Anti-CD154 Antibody, followed by anti-mouse IgG PE.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.