

# CD154

Purified Mouse Monoclonal Antibody

Catalog # AO2711a

## Product Information

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<b>Application</b>	WB, IHC, ICC, E
<b>Primary Accession</b>	<a href="#">P29965</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Clone Names</b>	5A3A9
<b>Isotype</b>	Mouse IgG2a
<b>Calculated MW</b>	29274
<b>Immunogen</b>	Purified recombinant fragment of human CD154 (AA: extra 47-261) expressed in E. Coli.
<b>Formulation</b>	Purified antibody in PBS with 0.05% sodium azide

## Additional Information

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<b>Gene ID</b>	959
<b>Other Names</b>	CD40LG; IGM; IMD3; TRAP; gp39; CD40L; HIGM1; T-BAM; TNFSF5; hCD40L
<b>Dilution</b>	WB~~ 1/500 - 1/2000 IHC~~1:100~500 ICC~~N/A E~~ 1/10000
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	CD154 is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	CD40LG
<b>Synonyms</b>	CD40L, TNFSF5, TRAP
<b>Function</b>	Cytokine that acts as a ligand to CD40/TNFRSF5 (PubMed: <a href="#">1280226</a> , PubMed: <a href="#">31331973</a> ). Costimulates T-cell proliferation and cytokine production (PubMed: <a href="#">8617933</a> ). 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 (PubMed: <a href="#">8617933</a> ). Induces the activation of NF-kappa-B (PubMed: <a href="#">15067037</a> , PubMed: <a href="#">31331973</a> ). Induces the activation of kinases MAPK8 and PAK2 in T-cells (PubMed: <a href="#">15067037</a> ). Induces

tyrosine phosphorylation of isoform 3 of CD28 (PubMed:[15067037](#)). Mediates B-cell proliferation in the absence of co-stimulus as well as IgE production in the presence of IL4 (By similarity). Involved in immunoglobulin class switching (By similarity).

<b>Cellular Location</b>	Cell membrane; Single-pass type II membrane protein. Cell surface
<b>Tissue Location</b>	Specifically expressed on activated CD4+ T- lymphocytes

## References

1.Hematology. 2016 Apr;21(3):187-92. 2.Mol Cell Probes. 2015 Dec;29(6):335-342.

## Images

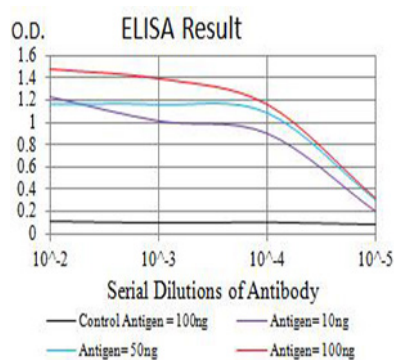


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

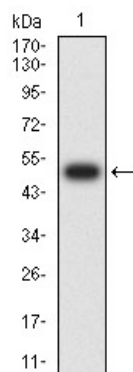


Figure 2:Western blot analysis using CD154 mAb against human CD154 (AA: extra 47-261) recombinant protein. (Expected MW is 50 kDa)

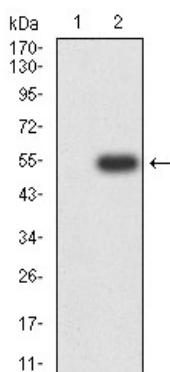
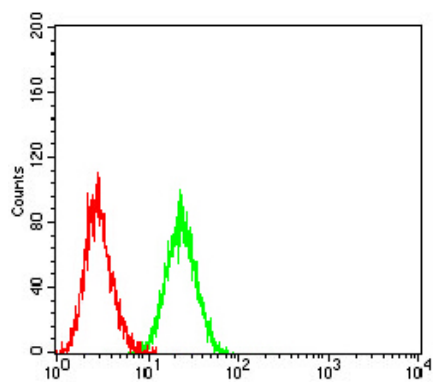


Figure 3:Western blot analysis using CD154 mAb against HEK293 (1) and CD154 (AA: extra 47-261)-hIgGFc transfected HEK293 (2) cell lysate.

Figure 4:Flow cytometric analysis of Ramos cells using CD154 mouse mAb (green) and negative control (red).



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.