10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CD154

Purified Mouse Monoclonal Antibody
Catalog # AO2710a

Product Information

Application	WB, IHC, ICC, E
Primary Accession	P29965
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	8H10F5
Isotype	Mouse IgG1
Calculated MW	29274
Immunogen	Purified recombinant fragment of human CD154 (AA: extra 47-261) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	959
Other Names	CD40LG; IGM; IMD3; TRAP; gp39; CD40L; HIGM1; T-BAM; TNFSF5; hCD40L
Dilution	WB~~ 1/500 - 1/2000 IHC~~1:100~500 ICC~~N/A E~~ 1/10000
Storage	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.
Precautions	CD154 is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CD40LG
Synonyms	CD40L, TNFSF5, TRAP
Function	Cytokine that acts as a ligand to CD40/TNFRSF5 (PubMed: 1280226, PubMed:31331973). Costimulates T-cell proliferation and cytokine production (PubMed:8617933). 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:8617933). Induces the activation of NF-kappa-B (PubMed:15067037, PubMed:31331973). Induces the activation of kinases MAPK8 and PAK2 in T-cells (PubMed:15067037). 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).
Cellular Location	Cell membrane; Single-pass type II membrane protein. Cell surface
Tissue Location	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

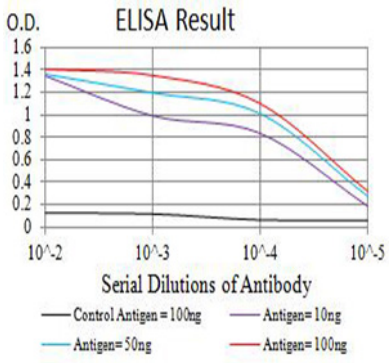


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

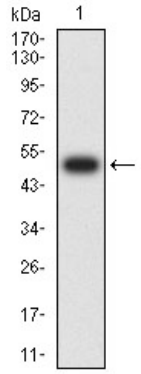


Figure 2:Western blot analysis using CD154 mAb against human CD154 (AA: extra 47-261) recombinant protein. (Expected MW is 50 kDa)

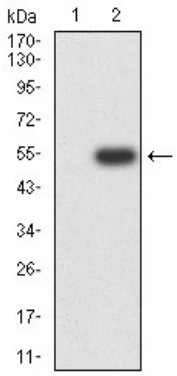
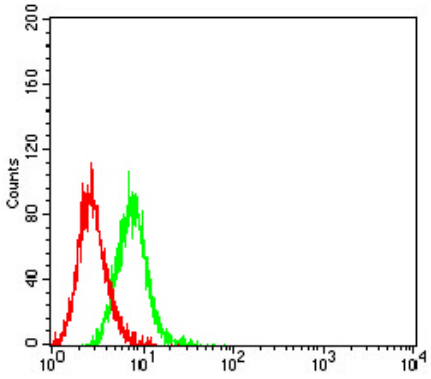


Figure 3:Western blot analysis using CD154 mAb against HEK293 (1) and CD154 (AA: extra 47-261)-hIgGFc transfected HEK293 (2) cell lysate.

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'.