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Anti-CD154 Antibody

Catalog # AP52025

Product Information

Application	WB, IF/IC
Primary Accession	P29965
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Bovine, Dog, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	29274

Additional Information

Gene ID	959
Other Names	CD40L; TNFSF5; TRAP; CD40 ligand; CD40-L; T-cell antigen Gp39; TNF-related activation protein; TRAP; Tumor necrosis factor ligand superfamily member 5; CD154
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CD154. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

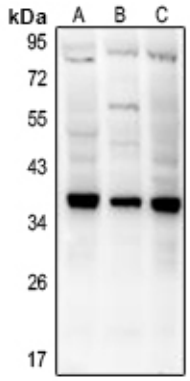
Name	CD40LG
Synonyms	CD40L, TNFSF5, TRAP
Function	Cytokine that acts as a ligand to CD40/TNFRSF5 (PubMed: 1280226, PubMed:31331973). Costimulates T-cell proliferation and cytokine production (PubMed:8617933). Its cross-linking on T-cells generates a costimulatory signal which enhances the production 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

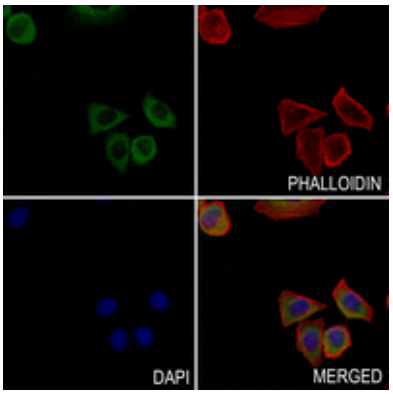
References

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Aruffo A.,et al.Cell 72:291-300(1993).
Spriggs M.K.,et al.J. Exp. Med. 176:1543-1550(1992).
Gauchat J.-F.,et al.FEBS Lett. 315:259-266(1993).

Images



Western blot analysis of CD154 expression in K562 (A), SP20 (B), Myla2059 (C) whole cell lysates. (Predicted band size: 29 kD; Observed band size: 36 kD)



Immunofluorescent analysis of CD154 staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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