

CD154 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP52025

Product Information

Application	WB
Primary Accession	P29965
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	29274

Additional Information

Gene ID	959
Other Names	CD40 ligand, CD40-L, T-cell antigen Gp39, TNF-related activation protein, TRAP, Tumor necrosis factor ligand superfamily member 5, CD154, CD40 ligand, membrane form, CD40 ligand, soluble form, CD40LG, CD40L, TNFSF5, TRAP
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CD154. The exact sequence is proprietary.
Dilution	WB~~1:1000
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
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

Background

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.

References

Graf D.,et al.Eur. J. Immunol. 22:3191-3194(1992).
Hollenbaugh D.,et al.EMBO J. 11:4313-4321(1992).
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).

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