

**CD154 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP52025****Specification**

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**CD154 Antibody - Product Information**

Application	<b>WB, E</b>
Primary Accession	<a href="#">P29965</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>29 KDa</b>

**CD154 Antibody - 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

**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

**CD154 Antibody - Protein Information****Name** CD40LG**Synonyms** CD40L, TNFSF5, TRAP**Function**

Cytokine that acts as a ligand to CD40/TNFRSF5 (PubMed: [1280226](http://www.uniprot.org/citations/1280226), PubMed: [31331973](http://www.uniprot.org/citations/31331973)). Costimulates T-cell proliferation and cytokine production (PubMed: [8617933](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/8617933)). Induces the activation of NF-kappa-B (PubMed: [15067037](http://www.uniprot.org/citations/15067037), PubMed: [31331973](http://www.uniprot.org/citations/31331973)). Induces the activation of kinases MAPK8 and PAK2 in T-cells (PubMed: [15067037](http://www.uniprot.org/citations/15067037)). Induces tyrosine phosphorylation of isoform 3 of CD28 (PubMed: [15067037](http://www.uniprot.org/citations/15067037)).

[15067037](http://www.uniprot.org/citations/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

**CD154 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**CD154 Antibody - Images****CD154 Antibody - 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.

**CD154 Antibody - 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).