

## Rabbit TRAP Polyclonal Antibody | anti-CD40LG antibody

TRAP Antibody (N-term)

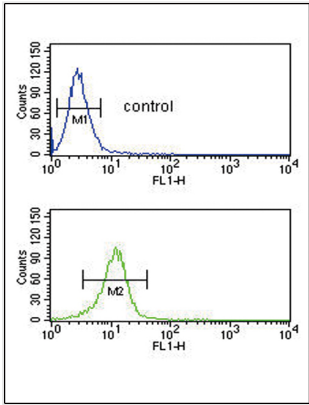
| CATALOG # | HOST   | REACTIVITY                                | APPLICATIONS                                                                                    |
|-----------|--------|-------------------------------------------|-------------------------------------------------------------------------------------------------|
| AAA285221 | Rabbit | Human (Predicted Reactivity: Bovine, Pig) | Immunohistochemistry, Immunofluorescence, Western Blot, ELISA, Flow Cytometry, Functional Assay |

### PRODUCT SYNONYMS

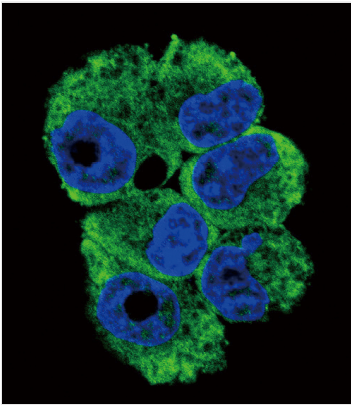
TRAP; Polyclonal Antibody; TRAP Antibody (N-term); CD40 ligand; CD40-L; T-cell antigen Gp39; TNF-related activation protein; Tumor necrosis factor ligand superfamily member 5; CD154; membrane form; soluble form; CD40LG; CD40L; TNFSF5; anti-CD40LG antibody

### PRODUCT SPECIFICATIONS

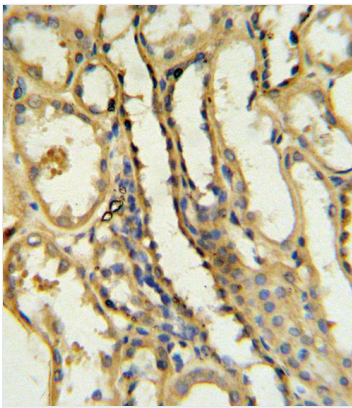
|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Reactivity                                       | Human (Predicted Reactivity: Bovine, Pig)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Clonality                                        | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Isotype                                          | Rabbit Ig                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Specificity                                      | This TRAP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 33-62 amino acids from the N-terminal region of human TRAP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Purity/Purification                              | Purified Rabbit Polyclonal Antibody (Pab)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Form/Format                                      | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Sequence Positions                               | 33-62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Sequence Length                                  | 261                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Applicable Applications for anti-CD40LG antibody | IHC (Immunohistochemistry), IF (Immunofluorescence), WB (Western Blot), ELISA, FCM/FACS (Flow Cytometry)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Preparation and Storage                          | Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |



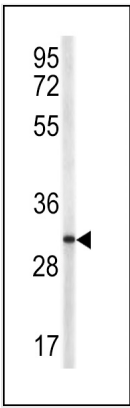
**FCM/FACS (Flow Cytometry)**  
TRAP antibody (N-term) flow cytometric analysis of NCI-H460 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



**IF (Immunofluorescence)**  
Confocal immunofluorescent analysis of TRAP Antibody (N-term) with NCI-H460 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



**IHC (Immunohistochemistry)**  
TRAP Antibody (N-term) IHC analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the TRAP Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



**WB (Western Blot)**  
Western blot analysis of TRAP antibody (N-term) in NCI-H460 cell line lysates (35ug/lane). TRAP (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

|                                                      |                                                                                                                                                                                                                                                  |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CD40LG antibody | TRAP is expressed on the surface of T cells. It regulates B cell function by engaging CD40 on the B cell surface. A defect in its gene results in an inability to undergo immunoglobulin class switch and is associated with hyper-IgM syndrome. |
| Product Categories/Family for anti-CD40LG antibody   | Cardiovascular; Immunology; Metabolism                                                                                                                                                                                                           |
| References                                           | Volmar,C.H., Exp. Cell Res. 315 (13), 2265-2274 (2009)<br>Chai,H., Surgery 146 (1), 5-11 (2009)                                                                                                                                                  |

NCBI AND UNIPROT INFORMATION

|                           |             |
|---------------------------|-------------|
| NCBI GI #                 | 4557433     |
| NCBI GeneID               | 959         |
| NCBI Accession #          | NP_000065.1 |
| NCBI GenBank Nucleotide # | NM_000074.2 |
| UniProt Accession #       | P29965      |

|                                  |                                                                   |
|----------------------------------|-------------------------------------------------------------------|
| Molecular Weight                 | 29274                                                             |
| NCBI Official Full Name          | CD40 ligand                                                       |
| NCBI Official Synonym Full Names | CD40 ligand                                                       |
| NCBI Official Symbol             | CD40LG                                                            |
| NCBI Official Synonym Symbols    | IGM; IMD3; TRAP; gp39; CD154; CD40L; HIGM1; T-BAM; TNFSF5; hCD40L |
| NCBI Protein Information         | CD40 ligand                                                       |
| UniProt Protein Name             | CD40 ligand                                                       |
| UniProt Gene Name                | <b>CD40LG</b>                                                     |
| UniProt Synonym Gene Names       | CD40L; TNFSF5; TRAP; CD40-L; TRAP                                 |
| UniProt Entry Name               | CD40L_HUMAN                                                       |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/trap-antibody-immunohistochemistry-immunofluorescence-western-blot-flow-cytometry-elisa/285221>