10320 Camino Santa Fe, Suite G
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TRAP Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6545A

Specification

TRAP Antibody (N-term) - Product Information

Application	**WB, FC, IF, IHC-P,E**
Primary Accession	P29965
Other Accession	Q95MQ5, P51749
Reactivity	**Human**
Predicted	**Bovine, Pig**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**29274**
Antigen Region	**33-62**

TRAP Antibody (N-term) - 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
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.

Dilution
WB~~1:1000
FC~~1:10~50
IF~~1:10~50
IHC-P~~1:10~50
E~~Use at an assay dependent concentration.

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.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
TRAP Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

TRAP Antibody (N-term) - 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

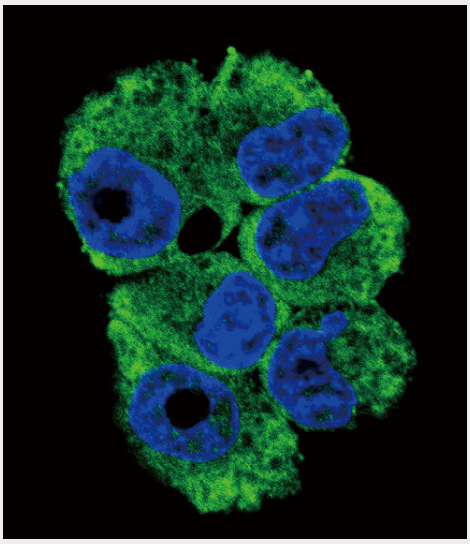
Tissue Location
Specifically expressed on activated CD4+ T- lymphocytes

TRAP Antibody (N-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TRAP Antibody (N-term) - Images



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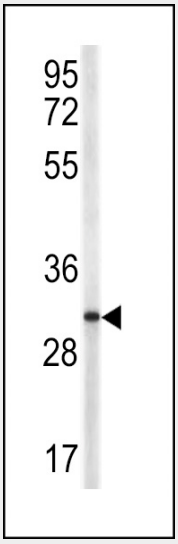
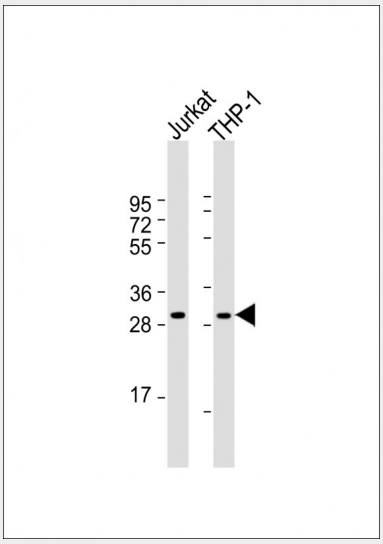
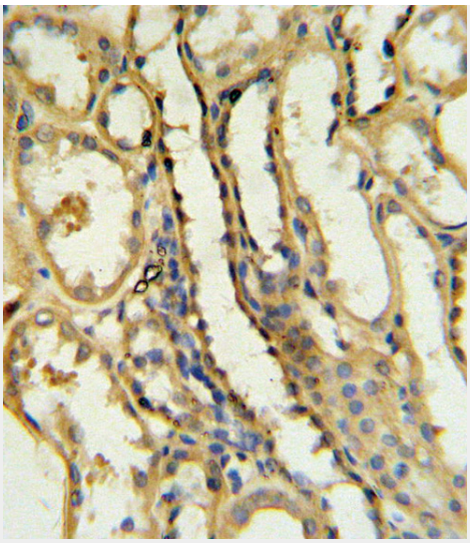
Confocal immunofluorescent analysis of TRAP Antibody (N-term)(Cat#AP6545a) with NCI-H460 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).DAPI was used to stain the cell nuclear (blue).



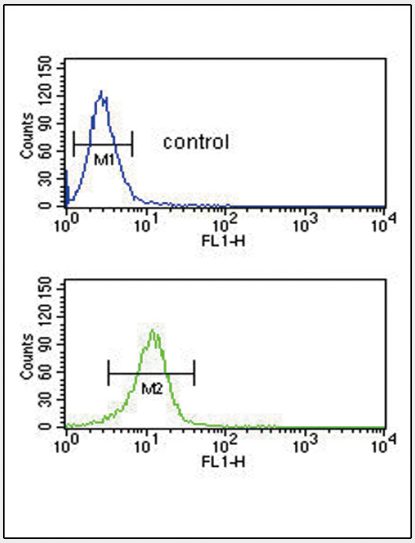
Western blot analysis of TRAP antibody (N-term) (Cat.# AP6545a) in NCI-H460 cell line lysates (35ug/lane). TRAP (arrow) was detected using the purified Pab.



All lanes : Anti-TRAP Antibody (N-term) at 1:1000 dilution Lane 1: Jurkat whole cell lysate Lane 2: THP-1 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 29 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



TRAP Antibody (N-term) (Cat.# AP6545a) 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.



TRAP antibody (N-term) (Cat.# AP6545a) 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.

TRAP Antibody (N-term) - Background

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.

TRAP Antibody (N-term) - References

Volmar,C.H., Exp. Cell Res. 315 (13), 2265-2274 (2009)
Chai,H., Surgery 146 (1), 5-11 (2009)

TRAP Antibody (N-term) - Citations

- Circular RNA atlas in osteoclast differentiation with and without alendronate treatment

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