

Rabbit TRAP/CD40L/CD40LG Polyclonal Antibody | anti-CD40LG antibody

Anti-TRAP/CD40L/CD40LG Antibody

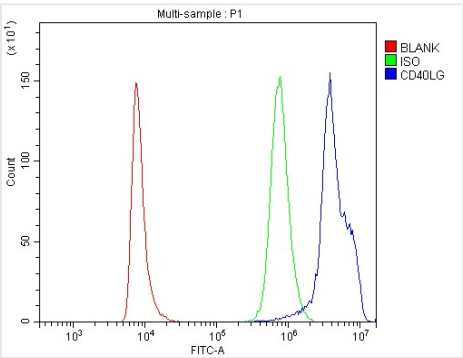
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125590	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

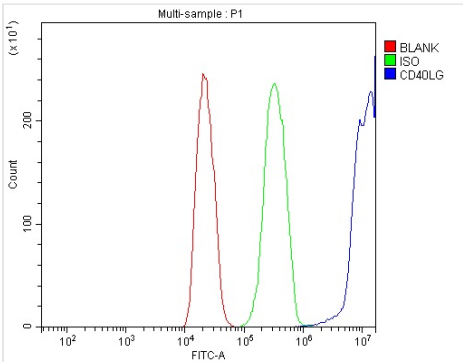
TRAP/CD40L/CD40LG; Polyclonal Antibody; Anti-TRAP/CD40L/CD40LG Antibody; CD40LG; CD40L; TNFSF5; TRAP; D40 ligand; CD40-L; T-cell antigen Gp39; TNF-related activation protein; Tumor necrosis factor ligand superfamily member 5; CD antigen CD154 [Cleaved into: CD40 ligand; membrane form; CD40 ligand; soluble form; sCD40L]
; anti-CD40LG antibody

PRODUCT SPECIFICATIONS

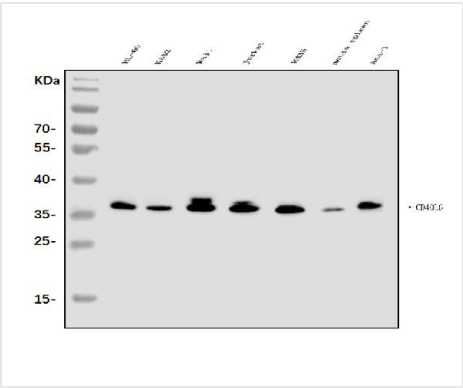
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for TRAP/CD40L/CD40LG detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Applicable Applications for anti-CD40LG antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E Coli-derived human TRAP/CD40L/CD40LG recombinant protein (Position: E76-H249).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 3. Flow Cytometry analysis of human PBMC cells using anti-TRAP/CD40L/CD40LG antibody (AAA125590).Overlay histogram showing human PBMC cells stained with AAA125590 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-TRAP/CD40L/CD40LG Antibody (AAA125590, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of C6 cells using anti-TRAP/CD40L/CD40LG antibody (AAA125590).Overlay histogram showing C6 cells stained with AAA125590 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-TRAP/CD40L/CD40LG Antibody (AAA125590, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)
Figure 1. Western blot analysis of TRAP/CD40L/CD40LG using anti-TRAP/CD40L/CD40LG antibody (AAA125590).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30ug of sample under reducing conditions.Lane 1: human HL-60 whole cell lysatesLane 2: human K562 whole cell lysatesLane 3: human Raji whole cell lysatesLane 4: human Jurkat whole cell lysatesLane 5: rat RH35 whole cell lysatesLane 6: mouse spleen tissue lysatesLane 7: mouse ANA-1 whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-TRAP/CD40L/CD40LG antigen affinity purified polyclonal antibody (Catalog # AAA125590) at 0. 5 μg/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for TRAP/CD40L/CD40LG at approximately 36KD. The expected band size for TRAP/CD40L/CD40LG is at 36KD.

ADDITIONAL INFORMATION

Related Product Information for anti-CD40LG antibody	CD40 ligand(CD40L) is a type II membrane protein of 261 amino acids on activated T cells that induces B cell proliferation and immunoglobulin secretion. It has homology with tumour necrosis factor-alpha and -beta, and has important functions in B-cell activation and differentiation. Human CD40L with 5 exons, is mapped to the proximal region of the mouse X chromosome on Xq26. 3-27. 1, and can be detected on T cells but is absent from B cells and monocytes. Since CD40L is expressed on platelets and released from them on activation, its predictive value as a marker for clinical outcome and the therapeutic effect of inhibition of glycoprotein IIb /IIIa receptor in patients with acute coronary syndromes was investigated. The soluble CD40L may be involved in the process of restenosis and that it exerts its effect by triggering a complex group of inflammatory reactions on endothelial and mononuclear cells. CD40L plays a central role in the pathophysiology of acute coronary syndromes, and has a role in the pathogenesis of coronary artery lesions.
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References	1. Allen,R. C.;Armitage,R. J.;Conley,M. E.;Rosenblatt,H.;Jenkins,N. A.;Copeland,N. G.;Bedell,M. A.;Edelhoff,S.;Disteche,C. M.;Simoneaux,D. K.;Fanslow,W. C.; Belmont,J.;Spriggs,M. K. :CD40 ligand gene defects responsible for X-linked hyper-IgM syndrome. Science 259: 990-993, 1993.
	2. Cipollone,F.;Ferri,C.;Desideri,G.;Paloscia,L.;Materazzo,G.;Mascellanti,M.;Fazia,M.;Iezzi,A.;Cuccurullo,C.;Pini,B.;Bucci,M.;Santucci,A.;Cuccurullo,F.; Mezzetti,A. :Preprocedural level of soluble CD40L is predictive of enhanced inflammatory response and restenosis after coronary angioplasty. Circulation 108: 2776-2782, 2003.

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	29,274 Da
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; CD40-L; CD40 antigen ligand; T-cell antigen Gp39; T-B cell-activating molecule; TNF-related activation protein; tumor necrosis factor (ligand) superfamily member 5
UniProt Protein Name	CD40 ligand
UniProt Gene Name	CD40LG
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.