

Anti-CD40 Antibody Picoband®

Catalog Number: PA1019-1

About CD40

CD40 is a cell surface receptor that is expressed on the surface of all mature B cells and also expressed on monocytes, dendritic cells, and thymic epithelium. CD40 is a member of the tumor necrosis factor (TNF) receptor superfamily and is the receptor for CD40 ligand. CD40 ligand (CD40L, CD154, gp39, and TRAM) belongs to the TNF gene family and is expressed more widely than CD40 predominantly on activated CD4+ T cells. Activation of CD40 has also been shown to inhibit the growth of certain B cell lymphomas and to induce the death of transformed cells of mesenchymal or epithelial origin.

Overview

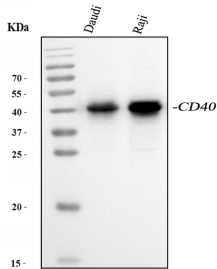
Product Name	Anti-CD40 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-CD40 Antibody catalog # PA1019-1. Tested in Flow Cytometry, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na ₂ HPO ₄ .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P25942

Technical Details

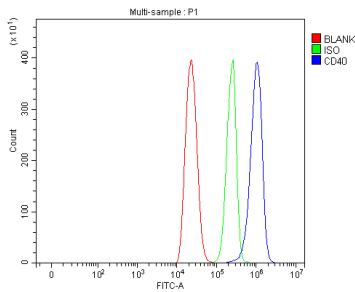
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human CD40.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human Flow Cytometry (Fixed), 1-3 ug/1x10 ⁶ cells, Human

Anti-CD40 Antibody Picoband® (PA1019-1) Images



Western blot analysis of CD40 using anti-CD40 antibody (PA1019-1). 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 30 ug of sample under reducing conditions. Lane 1: human Daudi whole cell lysates, Lane 2: human Raji whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-CD40 antigen affinity purified polyclonal antibody (Catalog # PA1019-1) at 0.5 ug/mL overnight at 4°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 (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for CD40 at approximately 40 kDa. The expected band size for CD40 is at 30 kDa.



Flow Cytometry analysis of THP-1 cells using anti-CD40 antibody (PA1019-1). Overlay histogram showing THP-1 cells stained with PA1019-1 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-CD40 Antibody (PA1019-1, 1 ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

2 Publications Citing This Product

1. PubMed ID: 20132097, Peng Yd, Cheng Lx, Zeng Qt, Shi Y, Bao Xx, Mao Xb, Ji Qw, Li Sn, Guo M, Liang Zs, Wu Tc. Cell Biol Int. 2010 Mar 24;34(5):447-53. Doi: 10.1042/Cbi20090301. The Role Of Rantes As A Crucial Downstream Cytokine In Calcineurin-Dependent Vsmc Apoptosis...
2. PubMed ID: 25953661, Meng Hx, Li Hn, Geng Js, Ohe R, Yu Xy, E Xq, Ye F, Yang Sr, Kato T, Zhang L, Ishida A, Ohta N, Jin Xm, Kakehata S, Geng Js, Yamakawa M. Transl Res. 2015 Sep;166(3):281-91. Doi: 10.1016/J.Trsl.2015.04.004. Epub 2015 Apr 17. Decreased Expression Of ...

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Anti-CD40 Antibody

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