

Anti-CD40L/CD40LG Antibody Picoband®

Catalog Number: A01114-3

About CD40LG

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.

Overview

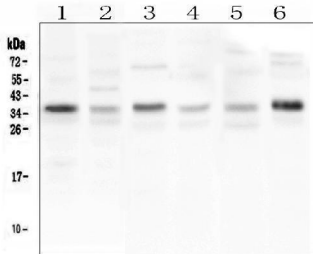
Product Name	Anti-CD40L/CD40LG Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-CD40L/CD40LG Antibody Picoband® catalog # A01114-3. Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees 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	WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
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	P29965

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human CD40L/CD40LG, which shares 82.8% and 79.3% amino acid (aa) sequence identity with mouse and rat CD40L/CD40LG, respectively.
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

Anti-CD40L/CD40LG Antibody Picoband® (A01114-3) Images



Western blot analysis of CD40LG using anti-CD40LG antibody (A01114-3). 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 50ug of sample under reducing conditions. Lane 1: human HL-60 whole cell lysates, Lane 2: human U-87MG whole cell lysates, Lane 3: rat liver tissue lysates, Lane 4: rat stomach tissue lysates, Lane 5: mouse spleen tissue lysates, Lane 6: mouse thymus tissue 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-CD40LG antigen affinity purified polyclonal antibody (Catalog # A01114-3) 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 1:10000 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 CD40LG at approximately 36KD. The expected band size for CD40LG is at 29KD.

1 Publications Citing This Product

1. PubMed ID: 19204010, Yang G, Fang Z, Liu Y, Zhang H, Shi X, Ji Q, Lin Q, Lin R. Evid Based Complement Alternat Med. 2011;2011:930324. Doi: 10.1093/Ecam/Nep013. Epub 2011 Jun 5. Protective Effects Of Chinese Traditional Medicine Buyang Huanwu Decoction On Myocardial In...

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Anti-CD40L/CD40LG Antibody

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