

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- α and - β , 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.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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.
Predicted Reactive Species	Human
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	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.1-0.5ug/ml

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

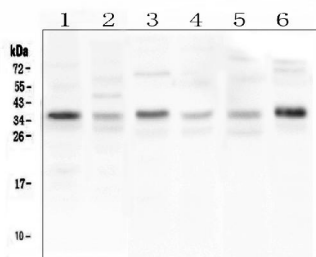


Figure 1. Western blot analysis of CD40LG using anti-CD40LG antibody (A01114-3).

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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