

Datasheet for ABIN5692813

anti-CD40 Ligand antibody (AA 107-260)

3 Images



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Quantity:	100 μg	
Target:	CD40 Ligand (CD40LG)	
Binding Specificity:	AA 107-260	
Reactivity:	Human, Mouse, Rat	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This CD40 Ligand antibody is un-conjugated	
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA	
Product Details		
Purpose:	Anti-CD40L/Cd40lg Antibody Picoband®	
Immunogen:	E. coli-derived mouse CD40L recombinant protein (Position: E107-L260).	

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Immunogen: E. coli-derived mouse CD40L recombinant protein (Position: E107-L260).

Isotype: IgG

Cross-Reactivity (Details): No cross-reactivity with other proteins.

Characteristics: Anti-CD40L/Cd40lg Antibody Picoband® (ABIN5692813). Tested in ELISA, IHC, 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.

Target Details

Target:	CD40 Ligand (CD40LG)	
Alternative Name:	Cd40lg (CD40LG Products)	
Background:	Synonyms: 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	
	Tissue Specificity: Specifically expressed on activated CD4+ T- lymphocytes.	
	Background: 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.	
Molecular Weight:	36 kDa	
Gene ID:	21947	
UniProt:	P27548	
Pathways:	NF-kappaB Signaling, Production of Molecular Mediator of Immune Response, Cancer Immune Checkpoints	

Application Details

Application Western blot, 0.1-0.5 µg/mL

Notes: Immunohistochemistry (Paraffin-embedded Section), 0.5-1 μg/mL

ELISA, 0.1-0.5 μg/mL

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.,Simor

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., Sant

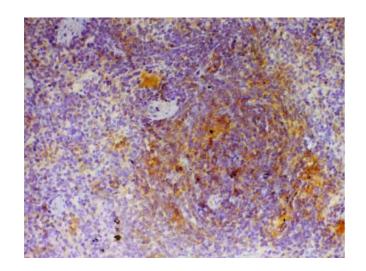
of soluble CD40L is predictive of enhanced inflammatory response and restenosis after coronary angioplasty. Circulation 1

Restrictions: For Research Use only

Handling

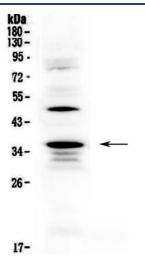
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 μg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg NaN ₃ .
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	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.

Images



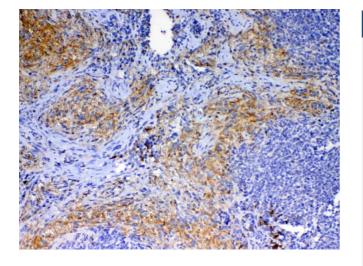
Immunohistochemistry

Image 1. IHC analysis of CD40L using anti-CD40L antibody. CD40L was detected in paraffin-embedded section of rat spleen tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1μg/ml rabbit anti-CD40L Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog #SA1022) with DAB as the chromogen.



Western Blotting

Image 2. Western blot analysis of CD40L using anti-CD40L antibody. 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: rat spleen lysates.After Electrophoresis, proteins 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-CD40L antigen affinity purified polyclonal antibody (Catalog #) at 0.5 µg/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 CD40L at approximately 36KD. The expected band size for CD40L is at 29KD.



Immunohistochemistry

Image 3. IHC analysis of CD40L using anti-CD40L antibody. CD40L was detected in paraffin-embedded section of mouse spleen tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1μg/ml rabbit anti-CD40L Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.