

Datasheet for ABIN6719970

CD40 Ligand ELISA Kit[Go to Product page](#)**1** Image

Overview

Quantity:	1 kit
Target:	CD40 Ligand (CD40LG)
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	62.5 pg/mL - 4000 pg/mL
Minimum Detection Limit:	62.5 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	<p>Synonyms: CD154, CD40 antigen ligand, CD40 ligand, CD40-L, CD40L_HUMAN, CD40LG, gp39, HIGM1, IGM, IMD3, soluble form, T B cell activating molecule, T BAM, T cell antigen Gp39, T-cell antigen Gp39, TNF related activation protein, TNF-related activation protein, TNFSF5, TrAP, Tumor necrosis factor (ligand) superfamily member 5, Tumor necrosis factor (ligand) superfamily, member 5 (hyper-IgM syndrome), Tumor necrosis factor ligand superfamily member 5</p> <p>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</p>

Product Details

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.

Gene Name: CD40LG

Production: Natural and recombinant human CD40L. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: E.coli, Immunogen sequence: E108-L261

Target Details

Target:	CD40 Ligand (CD40LG)
Alternative Name:	sCD40L (CD40LG Products)
Gene ID:	959
NCBI Accession:	NP_000065
UniProt:	P29965
Pathways:	NF-kappaB Signaling , Production of Molecular Mediator of Immune Response , Cancer Immune Checkpoints

Application Details

Application Notes:	<p>Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 4000pg/mL, 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL human CD40L standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum or plasma (heparin, EDTA) to each empty well. It is recommended that each human CD40L standard solution and each sample be measured in duplicate.</p> <p>Blood Product Anticoagulant: Heparin Sodium</p>
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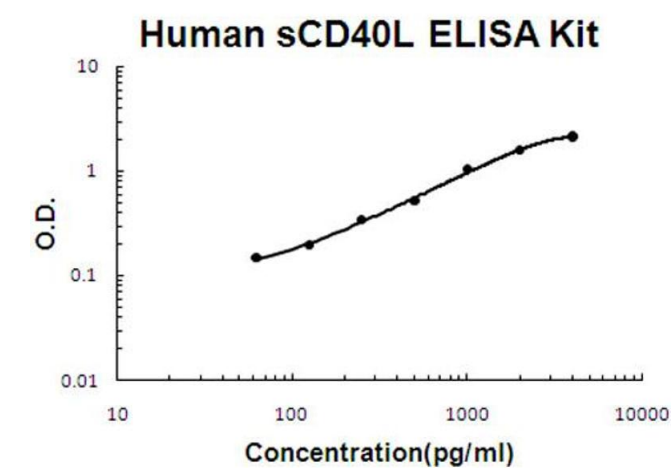
Application Details

	ELISA Dilution: 62.5pg/mL-4000pg/mL
Sample Volume:	100 µL
Plate:	Pre-coated
Restrictions:	For Research Use only

Handling

Storage:	RT,4 °C,-20 °C
Storage Comment:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.

Images



ELISA

Image 1. Human sCD40L Accusignal ELISA Kit Human sCD40L AccuSignal ELISA Kit standard curve. Assay Range: 62.5pg/ml-4000pg/ml. Sensitivity: <15pg/ml.