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#### **CD40 ELISA Kit**





#### Overview

Quantity:	1 kit
Target:	CD40
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	15.6 pg/mL - 1000 pg/mL
Minimum Detection Limit:	15.6 pg/mL
Application:	ELISA

## **Product Details**

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen	
Sample Type:	Breast Milk, Cell Culture Supernatant, Plasma (EDTA - heparin), Saliva, Serum, Urine	
Analytical Method:	Quantitative	
Detection Method:	Colorimetric	
Characteristics:	Synonyms: B cell associated molecule B cell associated molecule CD40, B cell surface antigen	

CD40, Bp50, CD40 antigen, CD40 Molecule, CD40 Molecule TNF receptor superfamily member 5, CD40 protein, CD40 type II isoform, CD40L receptor, Nerve growth factor receptor related B lymphocyte activation molecule, NFRSF5, p50, T BAM, TBAM, TNF receptor superfamily member 5, TNFRSF5, TRAP, Tumor necrosis factor receptor superfamily member 5, Tumor necrosis factor receptor superfamily member 5 precursor Background: CD40 is a cell surface receptor that is expressed on the surface of all mature B

cells, most mature B-cell malignancies, and some early B-cell acute lymphocytic leukemias, but

is not expressed on plasma cells. The CD40 gene is localized to the long arm of chromosome 20, bands q12-q13.2. The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor has been found to be essential in mediating a broad variety of immune and inflammatory responses including T cell-dependent immunoglobulin class switching, memory B cell development, and germinal center formation.

Gene Name: CD40

**CD40** 

Production: Natural and recombinant human CD40. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: NSO, Immunogen sequence: E21-R193

#### Target Details

Target:

Alternative Name:	CD40 - TNFRSF5 (CD40 Products)	
Gene ID:	958	
NCBI Accession:	NP_001241	
UniProt:	P25942	
Pathways:	NF-kappaB Signaling, Cellular Response to Molecule of Bacterial Origin, M Phase, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, Production of	

Molecular Mediator of Immune Response, Cancer Immune Checkpoints

### **Application Details**

Application Notes:	Application No
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ote: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL, 15.6pg/mL human CD40 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, plasma( heparin, EDTA), saliva, urine or human milk to each empty well. It is recommended that each human CD40 standard solution and each sample be measured in duplicate. Blood Product Anticoagulant: Heparin Sodium

ELISA Dilution: 15.6pg/mL-1000pg/mL

Sample Volume: 100 µL

Plate: Pre-coated

# **Application Details**

Restrictions:

For Research Use only

# Handling

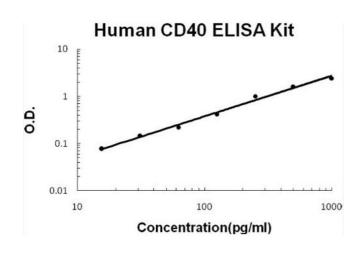
Storage:

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 CD40/TNFRSF5 Accusignal ELISA Kit Human CD40/TNFRSF5 AccuSignal ELISA Kit standard curve. Assay Range: 15.6pg/ml-1000pg/ml. Sensitivity: <1pg/ml.