

## Human CD40 receptor/soluble (CD40) ELISA Kit

Catalog No: #EK11303



Package Size: #EK11303-1 48T #EK11303-2 96T

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

## Description

Product Name	Human CD40 receptor/soluble (CD40) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	Bp50; CDW40; MGC9013; TNFRSF5; p50; B cell surface antigen CD40 B cell-associated molecule CD40 antigen CD40 antigen (TNF receptor superfamily member 5) CD40 type II isoform CD40L receptor nerve gro
Accession No.	P25942
Uniprot	P25942
GeneID	958;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.  The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

## Application Details

Detect Range:15.6-1000 pg/mL

Sensitivity:5.8 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate CD40 in samples. An antibody specific for CD40 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyCD40 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for CD40 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of CD40 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**CD40 is a protein that is primarily expressed on activated T cells and is a member of the TNF superfamily of molecules. It binds to CD40 on antigen-presenting cells (APC), which leads to many effects depending on the target cell type. In general, CD40L plays the role of a costimulatory molecule and induces activation in APC in association with T cell receptor stimulation by MHC molecules on the APC. In total CD40L has three binding partners: CD40, α5β1 integrin and α11β3. CD40L is expressed on the surface of T cells. It regulates B cell function by engaging CD40 on the B cell surface. A defect in this gene results in an inability to undergo immunoglobulin class switch and is associated with hyper IgM syndrome.

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Note: This product is for in vitro research use only