

## ARG81438 Human CD40 ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG81438-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81438-002	Standard	2 X 10 ng/vial	4°C
ARG81438-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81438-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81438-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81438-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81438-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81438-008	25X Wash buffer	20 ml	4°C
ARG81438-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81438-010	STOP solution	10 ml (Ready to use)	4°C
ARG81438-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG81438 Human CD40 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human CD40 in serum, plasma (heparin, EDTA), saliva, urine, human milk and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	CD40
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	7.8 pg/ml
Sample Type	Serum, plasma (heparin, EDTA), saliva, urine, human milk and cell culture supernatants.
Standard Range	15.6 - 1000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 6.2% Inter-Assay CV: 7.2%
Alternate Names	CDw40; CD antigen CD40; Tumor necrosis factor receptor superfamily member 5; Bp50; CD40L receptor; CDW40; TNFRSF5; p50; B-cell surface antigen CD40

## Application Instructions

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Assay Time	~ 5 hours
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## Properties

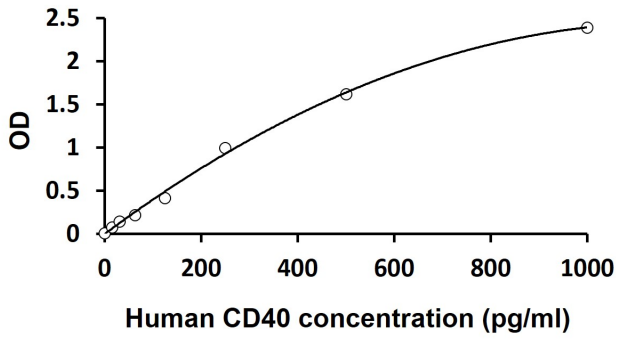
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Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

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Gene Symbol	CD40
Gene Full Name	CD40 molecule, TNF receptor superfamily member 5
Background	This gene is a member of the TNF-receptor superfamily. The encoded protein is a receptor on antigen-presenting cells of the immune system and is essential for mediating a broad variety of immune and inflammatory responses including T cell-dependent immunoglobulin class switching, memory B cell development, and germinal center formation. AT-hook transcription factor AKNA is reported to coordinately regulate the expression of this receptor and its ligand, which may be important for homotypic cell interactions. Adaptor protein TNFR2 interacts with this receptor and serves as a mediator of the signal transduction. The interaction of this receptor and its ligand is found to be necessary for amyloid-beta-induced microglial activation, and thus is thought to be an early event in Alzheimer disease pathogenesis. Mutations affecting this gene are the cause of autosomal recessive hyper-IgM immunodeficiency type 3 (HIGM3). Multiple alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by RefSeq, Nov 2014]
Function	Receptor for TNFSF5/CD40LG. Transduces TRAF6- and MAP3K8-mediated signals that activate ERK in macrophages and B cells, leading to induction of immunoglobulin secretion. [UniProt]
Highlight	Related products: <a href="#">CD40 antibodies</a> ; <a href="#">CD40 ELISA Kits</a> ; New ELISA data calculation tool: <a href="#">Simplify the ELISA analysis by GainData</a>



ARG81438 Human CD40 ELISA Kit standard curve image

ARG81438 Human CD40 ELISA Kit results of a typical standard run with optical density reading at 450 nm.