

Human Tumor Necrosis Factor Receptor Superfamily, Member 5 (CD40) ELISA Kit | CD40 elisa kit

Human Tumor Necrosis Factor Receptor Superfamily, Member 5 (CD40)(Sandwich ELISA) Mini sample ELISA Kit

CATALOG # AAA152410	REACTIVITY Human
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PRODUCT SYNONYMS

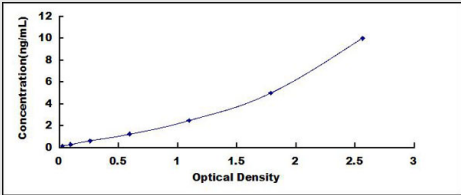
Tumor Necrosis Factor Receptor Superfamily; Member 5 (CD40); Human Tumor Necrosis Factor Receptor Superfamily; Member 5 (CD40)(Sandwich ELISA) Mini sample ELISA Kit; Mini Samples ELISA Kit for Tumor Necrosis Factor Receptor Superfamily; TNFRSF5; CDW40; Bp50; P50; B-cell surface antigen CD40; CD40L receptor; CD40 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Detects protein (micro-volume samples 15-25 ul) Reactive with Human CD40/Tumor Necrosis Factor Receptor Superfamily, Member 5 This assay has high sensitivity and excellent specificity for detection of Mini Samples Tumor Necrosis Factor Receptor Superfamily, Member 5 (CD40). No significant cross-reactivity or interference between Mini Samples Tumor Necrosis Factor Receptor Superfamily, Member 5 (CD40) and analogues was observed.
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Method	Colormetric
Sensitivity	0.054ng/mL
Assay Time	3h
Sample Size	15-25uL
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Mini Samples Tumor Necrosis Factor Receptor Superfamily, Member 5 (CD40) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Mini Samples Tumor Necrosis Factor Receptor Superfamily, Member 5 (CD40) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10%, Inter-Assay: CV<12%
Test Principle	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Mini Samples Tumor Necrosis Factor Receptor Superfamily, Member 5 (CD40). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Mini Samples Tumor Necrosis Factor Receptor Superfamily, Member 5 (CD40). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Mini Samples Tumor Necrosis Factor Receptor Superfamily, Member 5 (CD40), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of Mini Samples Tumor Necrosis Factor Receptor Superfamily, Member 5 (CD40) in the samples is then determined by comparing the O.D. of the samples to the standard curve.

Assay Procedure Summary	1. Prepare all reagents, samples and standards 2. Add 25uL standard or sample to each well. Incubate 1 hour at 37 degree C 3. Aspirate and add 25uL prepared Detection Reagent A. Incubate 1 hour at 37 degree C 4. Aspirate and wash 3 times 5. Add 25uL prepared Detection Reagent B. Incubate 30 minutes at 37 degree C 6. Aspirate and wash 5 times 7. Add 25uL Substrate Solution. Incubate 10-20 minutes at 37 degree C 8. Add 20uL Stop Solution. Read at 450nm immediately.
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (within shelf life) Shelf-life: one year The stability of 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. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)
Typical Standard Curve for CD40 ELISA (Sandwich

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507581
NCBI GeneID	958
NCBI Accession #	NP_001241.1
NCBI GenBank Nucleotide #	NM_001250.4
UniProt Accession #	P25942; Q53GN5; Q5JY15; Q5U007; Q7M4Q8; Q86YK5; Q9BYU0; E1P5S9
Molecular Weight	30,619 Da
NCBI Official Full Name	tumor necrosis factor receptor superfamily member 5 isoform 1
NCBI Official Synonym Full Names	CD40 molecule, TNF receptor superfamily member 5
NCBI Official Symbol	CD40
NCBI Official Synonym Symbols	p50; Bp50; CDW40; TNFRSF5
NCBI Protein Information	tumor necrosis factor receptor superfamily member 5; CD40L receptor; CD40 type II isoform; B cell-associated molecule; B cell surface antigen CD40; B-cell surface antigen CD40; CD40 antigen (TNF receptor superfamily member 5); tumor necrosis factor recept
UniProt Protein Name	Tumor necrosis factor receptor superfamily member 5
UniProt Gene Name	CD40
UniProt Synonym Gene Names	TNFRSF5
UniProt Entry Name	TNR5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

