

Human Transcobalamin-1 ELISA Kit | TCN1 elisa kit

Human Transcobalamin-1 ELISA Kit

CATALOG #
AAA99917

REACTIVITY
Human

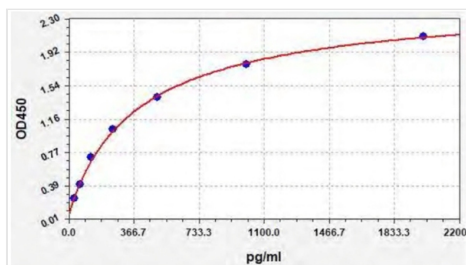
PRODUCT SYNONYMS

Transcobalamin-1; Human Transcobalamin-1 ELISA Kit; Transcobalamin-1/TCN1/TC-1; TCN1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Specifically recognize TCN1, no obvious cross reaction with other analogues
Sequence Length	433
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	31.25-2000pg/ml
Sensitivity	18.75pg/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TCN1 elisa kit	Background: Transcobalamin (TCN1) is a vitamin B12 (cobalamin)-binding protein that regulates cobalamin homeostasis. TCN1 could be used as a novel biomarker for colon cancer aggressiveness and prognosis and also be a potential biomarker for predicting neoadjuvant chemosensitivity. Diseases associated with TCN1 include Transcobalamin I Deficiency and Vitamin B12 Deficiency. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti TCN1 antibody was precoated onto the 96-well plate. The biotin conjugated anti TCN1 antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with TCN1 conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of TCN1 in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
--	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	21071008
NCBI GeneID	6947
NCBI Accession #	NP_001053.2
NCBI GenBank Nucleotide #	NM_001062.3
Molecular Weight	48,207 Da
NCBI Official Full Name	transcobalamin-1
NCBI Official Synonym Full Names	transcobalamin 1
NCBI Official Symbol	TCN1
NCBI Official Synonym Symbols	HC; TC1; TCI; TC-1
NCBI Protein Information	transcobalamin-1
UniProt Protein Name	Transcobalamin-1
UniProt Gene Name	TCN1
UniProt Synonym Gene Names	TC1; TC-1; HC; TC I; TCI
UniProt Entry Name	TCO1_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.