

## Human Transcobalamin I (TCN1) ELISA Kit | TCN1 elisa kit

Human Transcobalamin I (TCN1) ELISA Kit

CATALOG #  
**AAA20736**

REACTIVITY  
**Human**

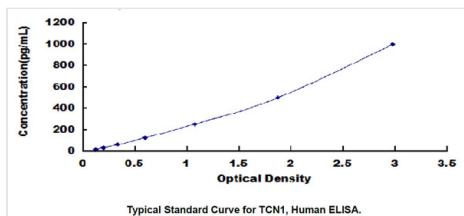
### PRODUCT SYNONYMS

Transcobalamin I (TCN1); Human Transcobalamin I (TCN1) ELISA Kit; TCI; TC1; Haptocorin; Haptocorrin; Vitamin B12 Binding Protein; R Binder Family; TCN1 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of TCN1. No significant cross-reactivity or interference between TCN1 and analogues was observed.                                                                                                                                                                                                                                                                                                                  |
| Sequence Length         | 433                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Assay Type              | Quantitative Sandwich                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Samples                 | Human serum, plasma, saliva, tissue homogenates and other biological fluids                                                                                                                                                                                                                                                                                                                                                                                                                |
| Detection Range         | 15.6-1,000pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Sensitivity             | < 5.7pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Intra-assay Precision   | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level TCN1 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%                                                                                                                                                                                                                                                                                                                     |
| Inter-assay Precision   | Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level TCN1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%                                                                                                                                                                                                                                                                                   |
| Preparation and Storage | 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.<br>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)

## ADDITIONAL INFORMATION

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for TCN1 elisa kit | <p>Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to TCN1. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to TCN1. 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 TCN1, 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 <math>\pm</math> 10nm. The concentration of TCN1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.</p> <p>Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of TCN1 in human serum, plasma, saliva, tissue homogenates and other biological fluids.</p> |
| Product Categories/Family for TCN1 elisa kit   | Metabolic pathway                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                 |
|----------------------------------|-----------------------------------------------------------------|
| NCBI GI #                        | 21071008                                                        |
| NCBI GeneID                      | 6947                                                            |
| NCBI Accession #                 | NP_001053.2                                                     |
| NCBI GenBank Nucleotide #        | NM_001062.3                                                     |
| UniProt Accession #              | P20061; Q8WV77; A8KAC5                                          |
| Molecular Weight                 | 48,207 Da                                                       |
| NCBI Official Full Name          | transcobalamin-1                                                |
| NCBI Official Synonym Full Names | transcobalamin I (vitamin B12 binding protein, R binder family) |
| 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.

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Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/transcobalamin-i-tcn1/20736>