

Human Transthyretin (TTR) ELISA Kit | TTR elisa kit

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CATALOG #
AAA20344

REACTIVITY
Human

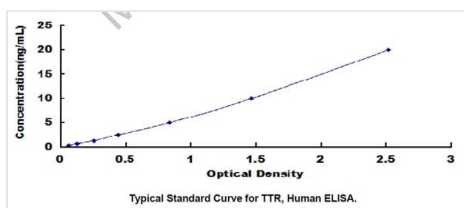
PRODUCT SYNONYMS

Transthyretin (TTR); Human Transthyretin (TTR) ELISA Kit; TBPA; PA; PLB; ATTR; ALB; Prealbumin; Prealbumin Amyloidosis Type I; Transports Thyroxine and Retinol; TTR elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of TTR. No significant cross-reactivity or interference between TTR and analogues was observed.
Sequence Length	147
Assay Type	Quantitative Sandwich
Samples	Human serum, plasma, tissue homogenates, cell lysates, cerebrospinal fluid, cell culture supernates and other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	< 0.151ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level TTR 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 TTR 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. 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 TTR elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to TTR. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to TTR. 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 TTR, 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 TTR in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of TTR in human serum, plasma, tissue homogenates, cell lysates, cerebrospinal fluid, cell culture supernates and other biological fluids.
Product Categories/Family for TTR elisa kit	Enzyme & Kinase; Tumor immunity; Infection immunity; Hormone metabolism
References	Serum biomarkers for nutritional status as predictors in COVID-19 patients before and after vaccination; J Funct Foods; 2023 Feb;101:105412.; PMID: 36644001; Rita Vaz-Rodrigues; Health and Biotechnology (SaBio), Instituto de Investigación en Recursos Cinegéticos IREC (CSIC-UCLM-JCCM), Ronda de Toledo 12, 1307Ciudad Real, Spain.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507725
NCBI GeneID	7276
NCBI Accession #	NP_000362.1
NCBI GenBank Nucleotide #	NM_000371.3
UniProt Accession #	P02766; Q549C7; Q6IB96; Q9UBZ6; Q9UCM9
Molecular Weight	15,887 Da
NCBI Official Full Name	transthyretin
NCBI Official Synonym Full Names	transthyretin
NCBI Official Symbol	TTR
NCBI Official Synonym Symbols	CTS; CTS1; PALB; TBPA; HEL111; HsT2651
NCBI Protein Information	transthyretin
UniProt Protein Name	Transthyretin
UniProt Gene Name	TTR
UniProt Synonym Gene Names	PALB
UniProt Entry Name	TTHY_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.