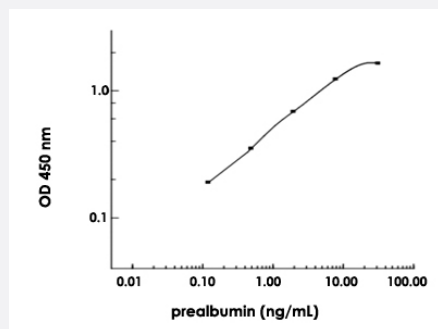


TTR (Human) ELISA Kit

Catalog # KA0495 Size 1 Kit

Applications



The standard curve is for the purpose of illustration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed.

Specification

Product Description	TTR (Human) ELISA Kit is a sandwich enzyme immunoassay for the quantitative measurement of human TTR.
Suitable Sample	Cell Culture Samples, CSF, Milk, Plasma, Saliva, Serum, Urine
Sample Volume	50 μ L
Label	Peroxidase-conjugated
Detection Method	Colorimetric
Assay Type	Quantitative
Calibration Range	0.122 to 31.25 ng/mL
Reactivity	Human
Regulation Status	For research use only (RUO)
Storage Instruction	Store components of the kit at 4°C or -20°C as described in the protocol.

Applications

- Quantification

Gene Info — TTR

Entrez GeneID [7276](#)

Gene Name TTR

Gene Alias HsT2651, PALB, TBPA

Gene Description transthyretin

Omim ID [176300](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes transthyretin, one of the three prealbumins including alpha-1-antitrypsin, transthyretin and orosomucoid. Transthyretin is a carrier protein; it transports thyroid hormones in the plasma and cerebrospinal fluid, and also transports retinol (vitamin A) in the plasma. The protein consists of a tetramer of identical subunits. More than 80 different mutations in this gene have been reported; most mutations are related to amyloid deposition, affecting predominantly peripheral nerve and/or the heart, and a small portion of the gene mutations is non-amyloidogenic. The diseases caused by mutations include amyloidotic polyneuropathy, euthyroid hyperthyroxinaemia, amyloidotic vitreous opacities, cardiomyopathy, oculoleptomeningeal amyloidosis, meningocerebrovascular amyloidosis, carpal tunnel syndrome, etc. [provided by RefSeq]

Other Designations prealbumin, amyloidosis type II/thyroxine-binding prealbumin

Publication Reference

- [A lower ratio of reduced to total albumin in serum is associated with protein nutritional status of pregnant women in Japan.](#)

Fuka Tabata, Yasuaki Wada, Takuya Shibasaki, Satomi Kawakami, Mayumi Inubashiri, Masayoshi Hosaka, Kiwamu Noshiro, Takeshi Umazume, Kazuhiro Miyaji.

Nutrition Research (New York, N.Y.) 2023 Mar; 114:1.

Application: Quant, Human, Human serum

- [Ligand conjugate SAR and enhanced delivery in NHP.](#)

Richard James Holland, Kieu Lam, Xin Ye, Alan D Martin, Mark C Wood, Lorne Palmer, David Fraser, Kevin McClintock, Sara Majeski, Agnes Jarosz, Amy C H Lee, Emily P Thi, Adam Judge, James Heyes.

Molecular Therapy 2021 Oct; 29(10):2910.

Application: Quant, Mouse, Mouse plasma

- [Effects of Parenteral Amino Acid Administration on the Postoperative Nutritional Status and Wound Healing of Protein-Malnourished Rats.](#)

Wada A, Sonoda C, Makino Y, Hama Y, Nagahama A, Harada D.

Journal of Nutritional Science and Vitaminology 2018 Jan; 64:34.

Application: ELISA, Rat, Plasma

- [Transthyretin represses neovascularization in diabetic retinopathy.](#)

Shao J, Yao Y.

Molecular Vision 2016 Oct; 22:1188.

Application: Quan, Human, Human retinal microvascular endothelial cells

- [Repression of retinal microvascular endothelial cells by transthyretin under simulated diabetic retinopathy conditions.](#)

Shao J, Yao Y.

International Journal of Ophthalmology. 2016 Jun; 9(6):809.

Application: ELISA, Human, Retinal pigment epithelial cells

- [Chronic Kidney Disease Alters Vitamin A Homeostasis via Effects on Hepatic RBP4 Protein Expression and Metabolic Enzymes.](#)

Jing J, Isoherranen N, Robinson-Cohen C, Petrie I, Kestenbaum BR, Yeung CK.

Clinical and Translational Science 2016 Aug; 9(4):207.

Application: ELISA, Human, Plasma

- [CHF5074 \(CSP-1103\) stabilizes human transthyretin in mice humanized at the transthyretin and retinol-binding protein loci.](#)

Mu Y, Jin S, Shen J, Sugano A, Takaoka Y, Qiang L, Imbimbo BP, Yamamura K, Li Z.

FEBS Letters 2015 Mar; 589(7):849.

Application: ELISA, Mouse, Serum

- [Terminal galactose residues on transferrin are increased in midlife adults compared to young adults.](#)

Dunston CR, Choudhury K, Griffiths HR.

Proteomics 2012 Nov; 12(21):3147.

Application: Quant, Human, Human plasma

- [Prealbumin, mortality, and cause-specific hospitalization in hemodialysis patients.](#)

Chertow GM, Goldstein-Fuchs DJ, Lazarus JM, Kaysen GA.

Kidney International 2005 Dec; 68(6):2794.

Application: Quant, Human, Serum from hemodialysis patients

- [Prealbumin: a marker for nutritional evaluation.](#)

Beck FK, Rosenthal TC.

American Family Physician 2002 Apr; 65(8):1575.

- [Transthyretin: a review from a structural perspective.](#)

Hamilton JA, Benson MD.

Cellular and Molecular Life Sciences 2001 Sep; 58(10):1491.

Application: Quant, Human, Human cerebrospinal fluid

Disease

- [Alzheimer disease](#)
- [Amyloid Neuropathies](#)
- [Amyloidosis](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Heart Diseases](#)
- [Kidney Failure](#)
- [Schizophrenia](#)