

ARG82367 Human Transthyretin / Prealbumin ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG82367-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82367-002	Standard	2 X 10 ng/vial	4°C
ARG82367-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82367-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82367-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82367-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82367-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82367-008	25X Wash buffer	20 ml	4°C
ARG82367-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82367-010	STOP solution	10 ml (Ready to use)	4°C
ARG82367-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG82367 Human Transthyretin / Prealbumin ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Transthyretin / Prealbumin in serum, plasma (EDTA, heparin) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	Transthyretin / Prealbumin
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	156 pg/ml
Sample Type	Serum, plasma (EDTA, heparin) and cell culture supernatants.
Standard Range	312 - 20000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 5.3%

Inter-Assay CV: 7.2%

Alternate Names

TBPA; HEL111; ATTR; CTS; Transthyretin; CTS1; PALB; HsT2651; Prealbumin

Application Instructions

Assay Time

~ 5 hours

Properties

Form

96 well

Storage instruction

Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.

Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol

TTR

Gene Full Name

transthyretin

Background

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, Jan 2009]

Function

Thyroid hormone-binding protein. Probably transports thyroxine from the bloodstream to the brain. [UniProt]

Highlight

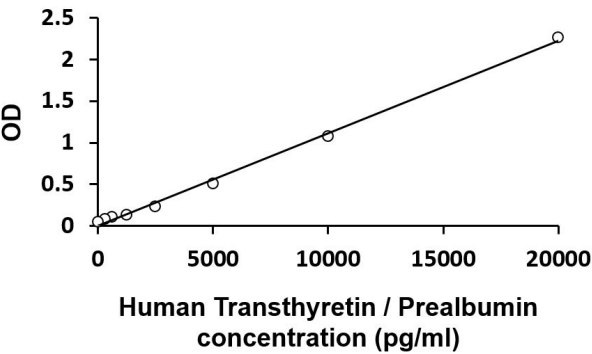
Related products:
[Transthyretin antibodies](#); [Transthyretin ELISA Kits](#);
New ELISA data calculation tool:
[Simplify the ELISA analysis by GainData](#)

PTM

Not glycosylated under normal conditions. Following unfolding, caused for example by variant AMYL-TTR 'Gly-38', the cryptic Asn-118 site is exposed and glycosylated by STT3B-containing OST complex, leading to its degradation by the ER-associated degradation (ERAD) pathway. [UniProt]

Cellular Localization

Secreted. Cytoplasm. [UniProt]



ARG82367 Human Transthyretin / Prealbumin ELISA Kit standard curve image

ARG82367 Human Transthyretin / Prealbumin ELISA Kit results of a typical standard run with optical density reading at 450 nm.