abcam

Product datasheet

Human Albumin ELISA Kit ab108787

3 References 1 Image

Overview

Product name Human Albumin ELISA Kit

Detection method Colorimetric

Precision

Intra-assay

Sample	n	Mean	SD	CV%
Overall				3.3%

Inter-assay

Sample	n	Mean	SD	CV%
Overall				10.6%

Sample type Serum, Plasma

Assay type Competitive

Sensitivity = 0.28 µg/ml

Range 1.5 µg/ml - 25 µg/ml

Recovery 98 %

Assay time 2h 00m

Assay duration Multiple steps standard assay

Species reactivity **Reacts with:** Human

Product overview Abcam's Albumin Human *in vitro* competitive ELISA (Enzyme-Linked Immunosorbent Assay) kit is designed for the measurement of albumin in Human plasma and serum.

An albumin specific antibody has been precoated onto 96-well plates and blocked. Standards or test samples are added to the wells and subsequently biotinylated albumin is added and then followed by washing with wash buffer. Streptavidin-Peroxidase Complex is added and unbound conjugates are washed away with wash buffer. TMB is then used to visualize Streptavidin-Peroxidase enzymatic reaction. TMB is catalyzed by Streptavidin-Peroxidase to produce a blue color product that changes into yellow after adding acidic stop solution. The density of yellow coloration is inversely proportional to the amount of albumin captured in plate.

Get results in 90 minutes with Human Serum Albumin ELISA Kit (**ab179887**) from our SimpleStep ELISA® range.

The entire kit may be stored at -20°C for long term storage before reconstitution - Avoid repeated freeze-thaw cycles.

Platform Microplate

Properties

Storage instructions Store at -20°C. Please refer to protocols.

Components	1 x 96 tests
100X Streptavidin-Peroxidase Conjugate	1 x 80µl
10X Diluent N Concentrate	1 x 30ml
20X Wash Buffer Concentrate	1 x 30ml
3X Biotinylated Human Albumin (Lyophilized)	1 vial
Albumin Microplate (12 x 8 well strips)	1 unit
Albumin Standard	1 vial
Chromogen Substrate	1 x 7ml
Sealing Tapes	3 units
Stop Solution	1 x 11ml

Function Serum albumin, the main protein of plasma, has a good binding capacity for water, Ca(2+), Na(+), K(+), fatty acids, hormones, bilirubin and drugs. Its main function is the regulation of the colloidal osmotic pressure of blood. Major zinc transporter in plasma, typically binds about 80% of all plasma zinc.

Tissue specificity Plasma.

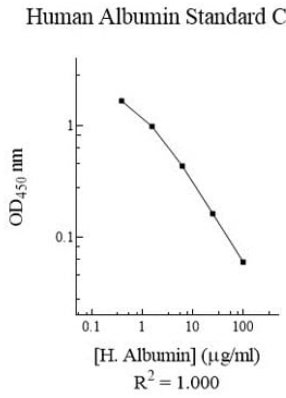
Involvement in disease Defects in ALB are a cause of familial dysalbuminemic hyperthyroxinemia (FDH) [MIM:103600]. FDH is a form of euthyroid hyperthyroxinemia that is due to increased affinity of ALB for T(4). It is the most common cause of inherited euthyroid hyperthyroxinemia in Caucasian population.

Sequence similarities Belongs to the ALB/AFP/VDB family.
Contains 3 albumin domains.

Post-translational modifications Kenitra variant is partially O-glycosylated at Thr-620. It has two new disulfide bonds Cys-600 to Cys-602 and Cys-601 to Cys-606.
Glycated in diabetic patients.
Phosphorylation sites are present in the extracelllular medium.
Acetylated on Lys-223 by acetylsalicylic acid.

Cellular localization Secreted.

Images



Typical Standard Curve

Representative Standard Curve using ab108787.

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