

Human Thyroxine Binding Globulin (TBG) ELISA Kit | TBG elisa kit

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CATALOG #
AAA183245

REACTIVITY
Human

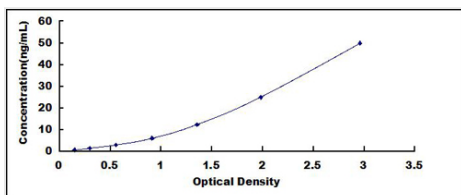
PRODUCT SYNONYMS

Thyroxine Binding Globulin (TBG); Human Thyroxine Binding Globulin (TBG) ELISA Kit; SERPINA7; Serpin Peptidase Inhibitor Clade A Member 7; T4-binding globulin; TBG elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Thyroxine Binding Globulin (TBG). No significant cross-reactivity or interference between Thyroxine Binding Globulin (TBG) and analogues was observed.
Sequence Length	415
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue Homogenates, Cell Lysates, Cell Culture Supernates and Other Biological Fluids
Detection Range	0.78-50ng/mL
Sensitivity	< 0.31ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Thyroxine Binding Globulin (TBG) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Thyroxine Binding Globulin (TBG) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
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 TBG elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Thyroxine Binding Globulin (TBG). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Thyroxine Binding Globulin (TBG). 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 Thyroxine Binding Globulin (TBG), 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 Thyroxine Binding Globulin (TBG) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	205277441
NCBI GeneID	6906
NCBI Accession #	NP_000345.2
NCBI GenBank Nucleotide #	NM_000354.5
UniProt Accession #	P05543; D3DUX1
Molecular Weight	46,325 Da
NCBI Official Full Name	thyroxine-binding globulin
NCBI Official Synonym Full Names	serpin family A member 7
NCBI Official Symbol	SERPINA7
NCBI Official Synonym Symbols	TBG; TBGQTL
NCBI Protein Information	thyroxine-binding globulin
UniProt Protein Name	Thyroxine-binding globulin
UniProt Gene Name	SERPINA7
UniProt Synonym Gene Names	TBG

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/thyroxine-binding-globulin-tbg/183245>