

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

Human Thyroxine-Binding Globulin (TBG) ELISA Kit

CATALOG #
AAA330910

REACTIVITY
Human

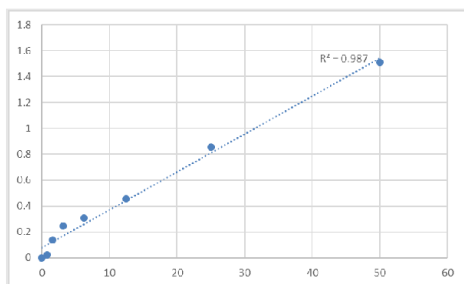
PRODUCT SYNONYMS

Thyroxine-Binding Globulin (TBG); Human Thyroxine-Binding Globulin (TBG) ELISA Kit; SERPINA7; RP1-82J11.2; TBG; OTTHUMP00000023779; alpha-1 antiproteinase; antitrypsin; serine (or cysteine) proteinase inhibitor; clade A (alpha-1 antiproteinase; antitrypsin); member 7; serine (or cysteine) prote; TBG elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Thyroxine-Binding Globulin (TBG) ELISA Kit has high sensitivity and excellent specificity for detection of Human SERPINA7. No significant cross-reactivity or interference between Human SERPINA7 and analogues was observed.
Sequence Length	415
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Thyroxine-Binding Globulin (TBG) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for TBG elisa kit	Description: This Human Thyroxine-Binding Globulin (TBG) ELISA Kit employs a two-site sandwich ELISA to quantitate SERPINA7 in samples. An antibody specific for SERPINA7 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SERPINA7 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SERPINA7 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of SERPINA7 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Thyroxine-binding globulin (TBG) binds Thyroid hormone in circulation. It is one of three proteins (along with transthyretin and albumin) responsible for carrying the thyroid hormones thyroxine (T4) and 3,5,3'-triiodothyronine (T3) in the bloodstream. Of these three proteins, TBG has the highest affinity for T4 and T3, but is present in the lowest concentration. Despite its low concentration, TBG carries the majority of T4 in serum. Due to the very low serum concentration of T4 & T3, TBG is rarely more than 25% saturated with its ligand. Unlike transthyretin and albumin, TBG has a single binding site for T4/T3. TBG is synthesized primarily in the liver as a 54 kDa protein. Genomically, TBG is a serpin, although it has no inhibitory function like many other members of this class of proteins.
---	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	205277441
NCBI GeneID	6906
NCBI Accession #	NP_000345.2
NCBI GenBank Nucleotide #	NP_000345.2
UniProt Accession #	P05543
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
UniProt Entry Name	THBG_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.