

Human SHBG PicoKine ELISA Kit | SHBG elisa kit

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CATALOG #
AAA46181

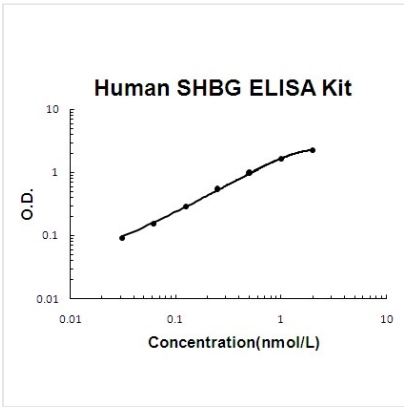
REACTIVITY
Human

PRODUCT SYNONYMS

SHBG PicoKine; Human SHBG PicoKine ELISA Kit; Sex hormone-binding globulin; ABP; Androgen binding protein; SBP; Sex steroid binding protein; Sex steroid-binding protein; SHBG; SHBG_HUMAN; TeBG; Testis specific androgen binding protein; Testis-specific androgen-binding protein; Testosterone binding beta globulin; Testosterone estradiol binding globulin; Testosterone estrogen binding globulin; Testosterone-estradiol-binding globulin; Testosterone-estrogen-binding globulin; sex hormone-binding globulin; SHBG elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human SHBG
Sequence Length	402
Assay Range	0.031nmol/L-2nmol/L
Sensitivity	<0.001nmol/L
Sample	For quantitative detection of human SHBG in cell culture supernates, serum and plasma(heparin, EDTA).
Immunogen	NSO,L30-H402
Assay Procedure Step 1	Aliquot 0.1ml per well of the 2nmol/L, 1nmol/L, 0.5nmol/L, 0.25nmol/L, 0.125nmol/L, 0.062nmol/L, 0.031nmol/L human SHBG standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum and plasma(heparin, EDTA) to each empty well. It is recommended that each human SHBG standard solution and each sample be measured in duplicate.
Intra-Assay Precision	Inter-Assay Precision Sample 1 2 3 1 2 3 n 16 16 16 24 24 24 Mean(nmol/L) 0.19 0.76 1.4 0.24 0.85 1.9 Standard deviation 0.009 0.043 0.095 0.014 0.051 0.137 CV(%) 4.5 5.6 6.8 5.7 6 7.2
Sample Data	Concentration(nmol/L) 0 0.031 0.062 0.125 0.25 0.5 1 2 O.D. 0.021 0.090 0.153 0.287 0.543 0.973 1.613 2.209
Anticoagulant	Heparin or EDTA
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.



Standard Curve (Sample)
Human SHBG PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for SHBG elisa kit

Principle of the assay: Human SHBG ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for SHBG has been precoated onto 96-well plates. Standards(NSO, L30-H402) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for SHBG is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human SHBG amount of sample captured in plate.

Background: Sex hormone-binding globulin (SHBG) or sex steroid-binding globulin (SSBG) is a glycoprotein that binds to the two sex hormones: androgen and estrogen. The gene for SHBG is located on chromosome 17 on the short arm between the bands 17p12+⁺p13. And this gene encodes a steroid binding protein that was first described as a plasma protein secreted by the liver but is now thought to participate in the regulation of steroid responses. The encoded protein transports androgens and estrogens in the blood, binding each steroid molecule as a dimer formed from identical or nearly identical monomers. Polymorphisms in this gene have been associated with polycystic ovary syndrome and type 2 diabetes mellitus. Alternative splicing results in multiple transcript variants.

NCBI AND UNIPROT INFORMATION

NCBI GI #	7382460
NCBI GeneID	6462
NCBI Accession #	NP_001031.2
NCBI GenBank Nucleotide #	NM_001040.4
UniProt Accession #	P04278; P14689; Q16616; Q3MIL0; Q6ISD2; B0FWH4; E9PGW1; F5H5Z8; I3L1N7
Molecular Weight	41,712 Da
NCBI Official Full Name	sex hormone-binding globulin isoform 1
NCBI Official Synonym Full Names	sex hormone binding globulin
NCBI Official Symbol	SHBG
NCBI Official Synonym Symbols	ABP; SBP; TEBG
NCBI Protein Information	sex hormone-binding globulin
UniProt Protein Name	Sex hormone-binding globulin
UniProt Gene Name	SHBG

UniProt Synonym Gene Names	SHBG; SBP; ABP; TeBG
UniProt Entry Name	SHBG_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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/shbg-picokine/46181>