



Rabbit Anti-SHBG antibody

SL1175R

Product Name:	SHBG
Chinese Name:	性激素结合球蛋白抗体
Alias:	Sex Hormone Binding Globulin; ABP; Androgen binding protein; MGC126834; MGC138391; SBP; Sex steroid binding protein; SHBG; TEBG; Testis specific androgen binding protein; Testosterone binding beta globulin; Testosterone Estradiol Binding Globulin; Testosterone estrogen binding globulin; SHBG_HUMAN; Sex hormone-binding globulin; Sex steroid-binding protein; Testis-specific androgen-binding protein; Testosterone-estradiol-binding globulin; TeBG; Testosterone-estrogen-binding globulin.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Cow,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	44kDa
Cellular localization:	Secretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human SHBG:301-402/402
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Sex hormone binding globulin (SHBG) is a glycoprotein synthesized by the liver. Circulating androgen and estrogen concentrations influence SHBG synthesis. Elevated

testosterone, for example, causes SHBG synthesis to decrease, whereas high estrogen stimulates SHBG production. The regulation of SHBG synthesis, combined with SHBG's higher affinity for testosterone, impacts bioavailable testosterone levels. SHBG binds up to 98 percent of the steroid hormones in the blood including 5 α -dihydrotestosterone (DHT), testosterone and androstenediol with particularly high affinity, and estradiol and estrone with slightly lower affinity.

Function:

Functions as an androgen transport protein, but may also be involved in receptor mediated processes. Each dimer binds one molecule of steroid. Specific for 5-alpha-dihydrotestosterone, testosterone, and 17-beta-estradiol. Regulates the plasma metabolic clearance rate of steroid hormones by controlling their plasma concentration.

Subunit:

Homodimer.

Subcellular Location:

Secreted . Note=In testis, it is synthesized by the Sertoli cells, secreted into the lumen of the seminiferous tubule and transported to the epididymis.

Tissue Specificity:

Isoform 1 and isoform 2 are present in liver and testis.

Post-translational modifications:

Variant Asn-356 contains one N-linked (GlcNAc...) at position 356.

Similarity:

Contains 2 laminin G-like domains.

SWISS:

P04278

Gene ID:

6462

Database links:

[Entrez Gene: 404182](#)Cow

[Entrez Gene: 6462](#)Human

[Omim: 182205](#)Human

[SwissProt: P04278](#)Human

[Unigene: 632235](#)Human

Important Note:

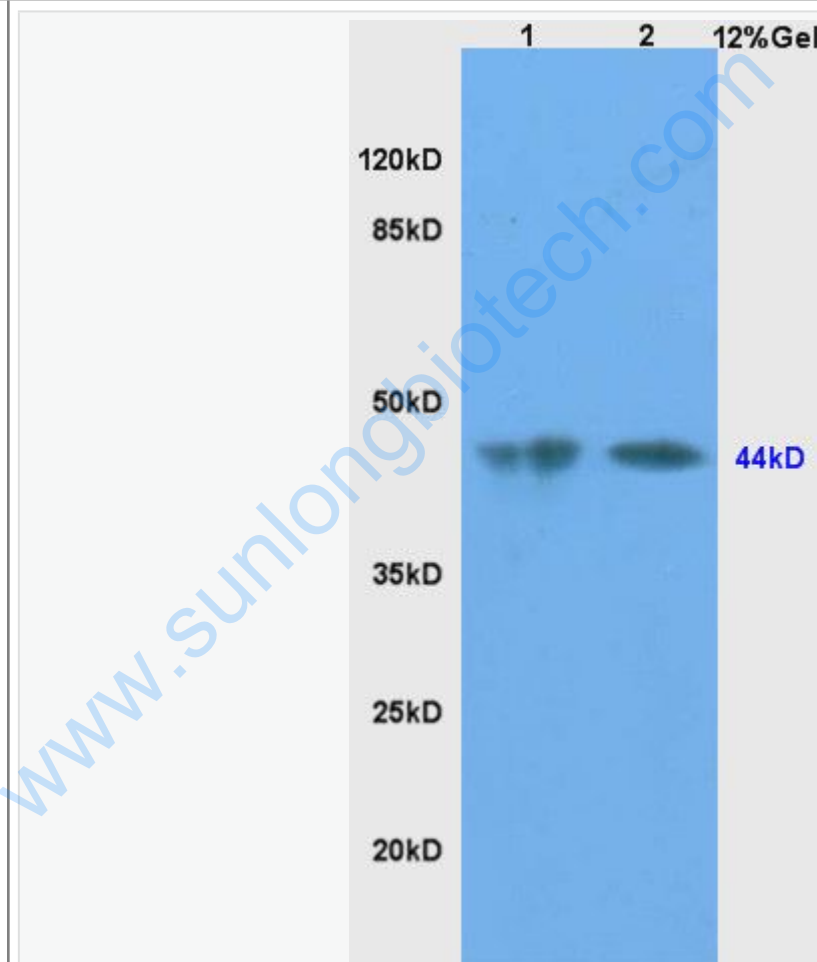
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

性激素结合球蛋白(SHBG),又称辜酮—雌二醇结合球蛋白。

SHBG是一运输性激素的载体,它在性激素人作用过程中以及在各种生理病理情况下都有一定的变化和意义。

SHBG是由母体肝脏产生的循环类固醇类结合球蛋白,执行载体蛋白的功能,胰岛素是肝脏合成SHBG的强大的抑制因子,胰岛素抑制效应的主要作用点在于竞争性刺激肝脏SHBG的产生,因而SHBG减少是高胰岛素血症、胰岛素抵抗的标志。

Picture:



Sample:

Lane1: Testis (Mouse) Lysate at 30 ug

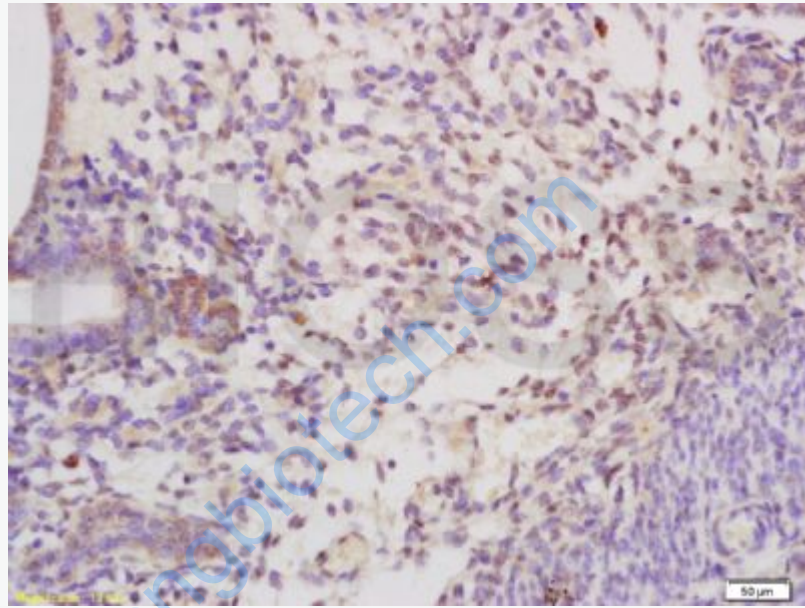
Lane2: Liver (Mouse) Lysate at 30 ug

Primary: Anti-SHBG(SL1175R) at 1:200 dilution;

Secondary: HRP conjugated Goat Anti-Rabbit IgG(SL1175R) at 1: 3000 dilution;

Predicted band size : 44kD

Observed band size : 44kD



Tissue/cell: rat uterus tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-SHBG Polyclonal Antibody, Unconjugated(SL1175R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining