

Anti-SHBG Picoband Antibody
Catalog # ABO12017**Specification**

Anti-SHBG Picoband Antibody - Product Information

Application	WB
Primary Accession	P04278
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Sex hormone-binding globulin(SHBG) detection. Tested with WB in Human.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-SHBG Picoband Antibody - Additional Information

Gene ID 6462

Other Names

Sex hormone-binding globulin, SHBG, Sex steroid-binding protein, SBP, Testis-specific androgen-binding protein, ABP, Testosterone-estradiol-binding globulin, TeBG, Testosterone-estrogen-binding globulin, SHBG

Calculated MW

43779 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization

Secreted . 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.

Protein Name

Sex hormone-binding globulin

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

Immunogen

E.coli-derived human SHBG recombinant protein (Position: L30-A210). Human SHBG shares 72% amino acid (aa) sequence identity with both mouse and rat SHBG.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Contains 2 laminin G-like domains.

Anti-SHBG Picoband Antibody - Protein Information

Name SHBG ([HGNC:10839](#))

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.

Cellular 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.

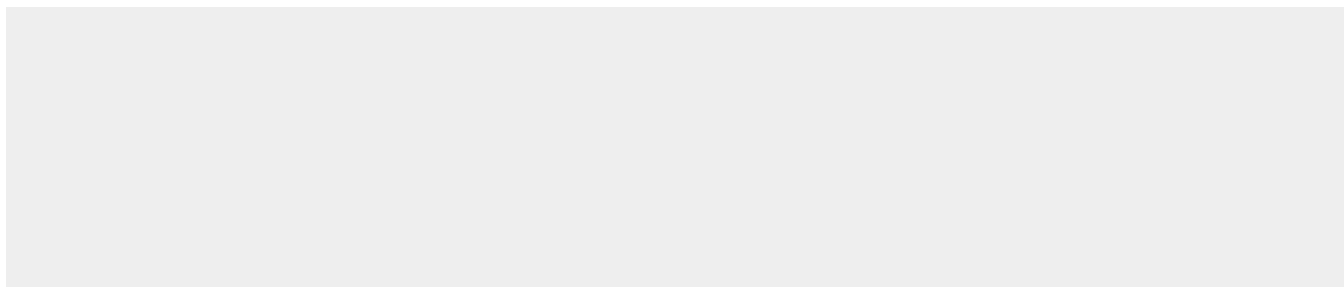
Tissue Location

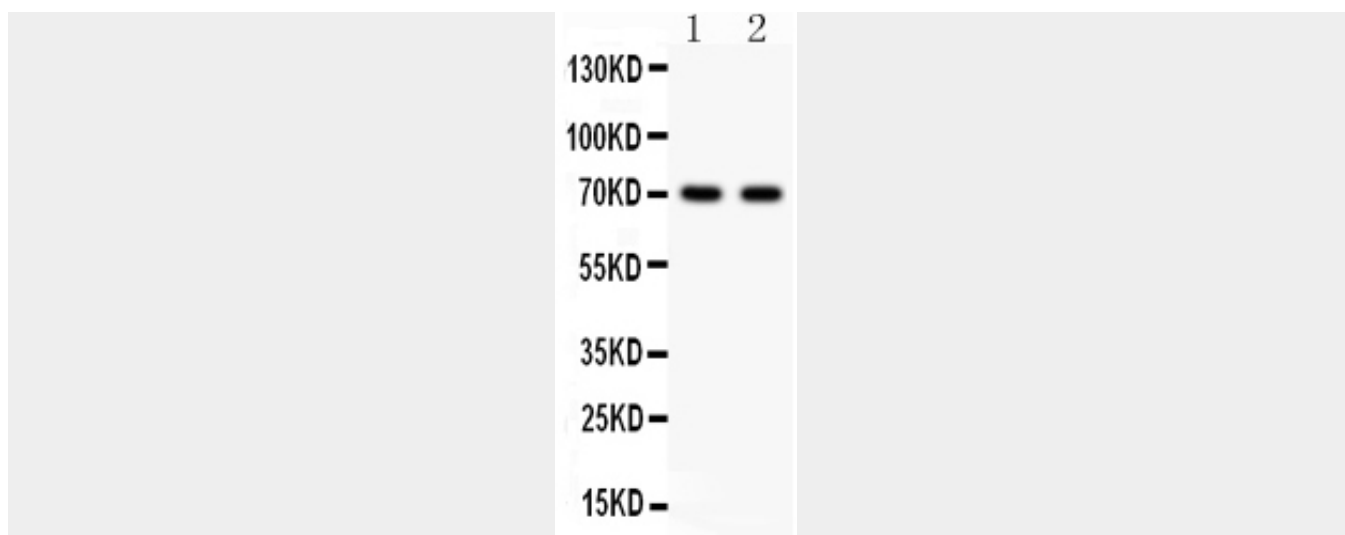
Isoform 1 and isoform 2 are present in liver and testis

Anti-SHBG Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-SHBG Picoband Antibody - Images



Anti- SHBG Picoband antibody, ABO12017, Western blotting All lanes: Anti SHBG (ABO12017) at 0.5ug/ml Lane 1: HELA Whole Cell Lysate at 40ug Lane 2: COLO320 Whole Cell Lysate at 40ug Predicted bind size: 44KD Observed bind size: 70KD

Anti-SHBG Picoband Antibody - Background

Sex hormone-binding globulin (SHBG) is a glycoprotein that binds to the sex hormones, androgen and estrogen. SHBG is produced mostly by the liver and is released into the bloodstream. Other sites that produce SHBG include the brain, uterus, testes, and placenta. SHBG has both enhancing and inhibiting hormonal influences. It decreases with high levels of insulin, growth hormone, insulin-like growth factor 1 (IGF-1), androgens, prolactin and transcortin. High estrogen, and thyroxine cause it to increase. It has been found that the monosaccharides glucose and fructose reduced human SHBG production by hepatocytes, irrespective of the presence of insulin, by downregulation of hepatocyte nuclear factor-4A and replacement of HNF4A by COUP-TFI at a cis-element within the human SHBG promoter, coincident with repression of its transcriptional activity.