

Anti-SHBG Picoband Antibody

Catalog # ABO12017

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.

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
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.
Source	Eukaryota
Protein Name	Sex hormone-binding globulin
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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 r° Constitution, 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.

Contains 2 laminin G-like domains.

Sequence Similarities

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

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.

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.