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SHBG Rabbit pAb

Catalog # AP99905

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P04278
Other Accession	P04278
Reactivity	Rat
Predicted	Human, Mouse, Rabbit, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43779
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SHBG
Epitope Specificity	301-402/402
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 2 laminin G-like domains.
SUBUNIT	Homodimer.
Post-translational modifications	Variant Asn-356 contains one N-linked (GlcNAc...) at position 356.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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 5a-dihydrotestosterone (DHT), testosterone and androstenediol with particularly high affinity, and estradiol and estrone with slightly lower affinity.

Additional Information

Gene ID	6462
Other Names	ABP; SBP; TEBG; SHBG_HUMAN; SHBG; Sex steroid-binding protein (SBP); Testis-specific androgen-binding protein (ABP); Testosterone-estradiol-binding globulin (TeBG); Testosterone-estrogen-binding globulin; sex hormone binding globulin; sex hormone-binding globulin; androgen binding protein
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

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

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