

Datasheet for 600-401-EJ0**SHBG Antibody****Overview**

Description:	Anti-SHBG (RABBIT) Antibody - 600-401-EJ0
Item No.:	600-401-EJ0
Size:	100 µg
Applications:	ELISA, IF, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	SHBG is a steroid binding protein that was first described as a plasma protein secreted by the liver and is thought to participate in the regulation of steroid responses. SHBG transports androgens and estrogens in the blood, binding each steroid molecule as a dimer formed from identical or nearly identical monomers (1). Low plasma SHBG levels are associated with obesity, abdominal adiposity, metabolic syndrome, and predict the development of type 2 diabetes (2,3). Polymorphisms in this gene have been associated with polycystic ovary syndrome and type 2 diabetes mellitus (4).
Synonyms:	Sex hormone-binding globulin, ABP, SBP, TEBG
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SHBG
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-SHBG antibody was prepared from whole rabbit serum produced by repeated immunizations with a 16 amino acid peptide near the internal region of human SHBG.

Purity/Specificity: Anti-SHBG antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. SHBG antibody is human, mouse, and rat reactive. At least three isoforms of SHBG are known to exist; this antibody will detect all three isoforms.

Relevant Links:

- [UniProtKB - P04278](#)
- [GeneID - 6462](#)
- [NCBI - NP_001031](#)

Application Details

Tested Applications: ELISA, IF, WB

Application Note: Anti-SHBG Antibody has been tested for use in ELISA, Western Blotting and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 44 kDa in Western Blots of specific cell lysates and tissues.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:10,000 - 1:20,000

IF: 20 µg/mL

WB: 1-2 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1.0 mg/mL by UV absorbance at 280 nm

Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

Preservative: 0.02% (w/v) Sodium Azide

Stabilizer: None

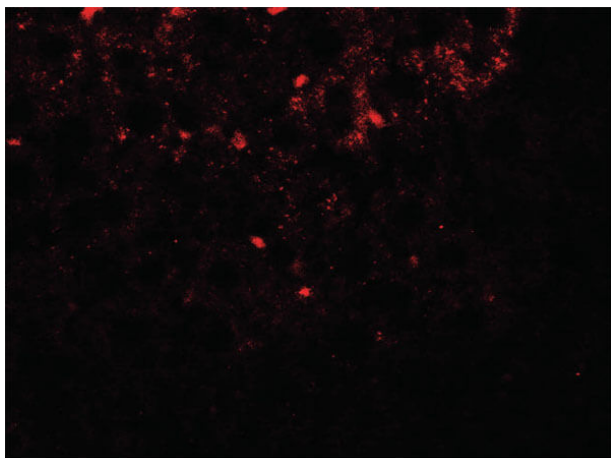
Shipping & Handling

Shipping Condition: Wet Ice

Storage Condition: Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

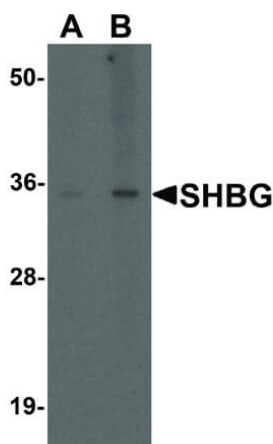
Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunofluorescence Microscopy

Immunofluorescence Microscopy of Rabbit anti-SHBG antibody. Tissue: mouse liver. Primary antibody: SHBG antibody at 20 µg/mL. Secondary antibody: Fluorescein rabbit secondary antibody at 1:20,000. Localization: SHBG is secreted. Staining: SHBG as red fluorescent signal.



Western Blot

Western Blot of Rabbit anti-SHBG antibody. Lane A: human liver tissue lysate at 1 µg/mL. Lane B: human liver tissue lysate at 2 µg/mL. Primary antibody: SHBG antibody overnight at 4°C. Secondary antibody: Goat-anti-Rabbit HRP secondary antibody. Block: 5% BLOTTO. Predicted/Observed size: 25/26/31/32/38/44 kDa, 35 kDa for SHBG.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.