R&D SYSTEMS
a bio-techne brand

# Human SHBG Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF2656

## DESCRIPTION

| | |
|---|---|
| **Species Reactivity** | Human |
| **Specificity** | Detects human SHBG in direct ELISAs and Western blots. |
| **Source** | Polyclonal Goat IgG |
| **Purification** | Antigen Affinity-purified |
| **Immunogen** | Mouse myeloma cell line NS0-derived recombinant human SHBG<br>Leu30-His402<br>Accession # P04278 |
| **Formulation** | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.<br>*Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS. |

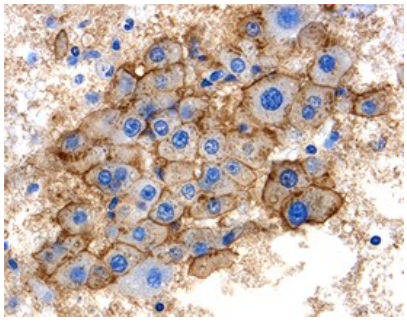
## APPLICATIONS

**Please Note:** *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

| | Recommended Concentration | Sample |
|---|---|---|
| **Western Blot** | 0.1 µg/mL | Recombinant Human SHBG |
| **Immunohistochemistry** | 5-15 µg/mL | See Below |

## DATA

**Immunohistochemistry**



**SHBG in Human Liver.** SHBG was detected in immersion fixed paraffin-embedded sections of human liver using Goat Anti-Human SHBG Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2656) at 1.7 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific labeling was localized to the plasma membrane of hepatocytes. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

## PREPARATION AND STORAGE

| | |
|---|---|
| **Reconstitution** | Reconstitute at 0.2 mg/mL in sterile PBS. |
| **Shipping** | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.<br>*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| **Stability & Storage** | **Use a manual defrost freezer and avoid repeated freeze-thaw cycles.**<br>● 12 months from date of receipt, -20 to -70 °C as supplied.<br>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.<br>● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

## BACKGROUND

Human SHBG (also known as ABP or androgen-binding protein) is a variably glycosylated, secreted non-disulfide linked homodimer that belongs to the SHBG family. Members of this small family have tandem repeats of 170 amino acid (aa) long laminin α chain G-like domains. Each SHBG monomer is a 47-53 kDa, 373 aa glycoprotein that contains one steroid-binding site in its N-terminal G-like domain. Male and female sex hormones are bound with equal affinity. SHBG is synthesized by the liver and circulates in blood; ABP (SHBG in the testis) is synthesized by Sertoli cells and circulates in the male reproductive system. Human SHBG shares approximately 67% aa sequence identity with mouse and rat SHBG.



bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956