

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human SHBG in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human SHBG Leu30-His402 Accession # P04278
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

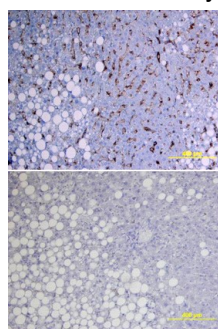
APPLICATIONS

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 Biotinylated Antigen Affinity-purified Polyclonal Antibody (Catalog # BAF2656) at 15 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). Lower panel shows a lack of labeling if primary antibodies are omitted and tissue is stained only with secondary antibody followed by incubation with detection reagents. 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.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 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.