

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human SHBG in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG ₁ Clone # 336711
Purification	Protein A or G purified from hybridoma culture supernatant
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 Trehalose. 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	1 µg/mL	Recombinant Human SHBG

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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 Sex Hormone Binding Globulin (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 aa long laminin a 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.