

For Research Use Only

# SHBG Recombinant antibody

Catalog Number: 83096-1-RR



## Basic Information

### Catalog Number:

83096-1-RR

### Concentration:

1000 µg/ml

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

BC101785

### GeneID (NCBI):

6462

### UNIPROT ID:

P04278

### Full Name:

sex hormone-binding globulin

### Calculated MW:

402 aa, 44 kDa

### Observed MW:

40-50 kDa

### Purification Method:

Protein A purification

### CloneNo.:

230356F10

### Recommended Dilutions:

WB: 1:500-1:2000

FC (Intra): 0.25 µg per 10<sup>6</sup> cells in a  
100 µl suspension

## Applications

### Tested Applications:

WB, FC (Intra), ELISA

### Species Specificity:

human

### Positive Controls:

WB : human placenta tissue,

FC (Intra) : HeLa cells,

## Background Information

SHBG (sex hormone-binding globulin), also known as androgen-binding protein (ABP), is the specific transport protein for sex steroid hormones in humans. SHBG is synthesized mainly by the liver and circulates in the blood, in form of homodimer with a single steroid-binding site per dimer. In addition to the plasma SHBG, a testis isoform expressed by Sertoli cells also exists due to the gene alternative splicing. Various bands (44-56 kDa) recognized by this antibody may represent variably glycosylated or different isoforms of SHBG.

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

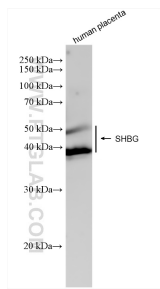
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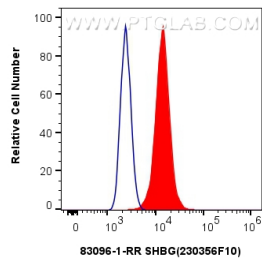
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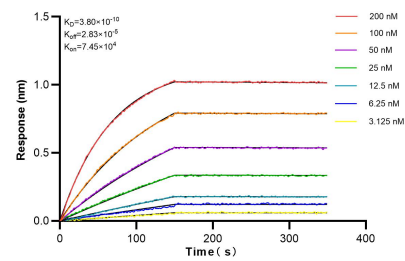
## Selected Validation Data



human placenta tissue were subjected to SDS PAGE followed by western blot with 83096-1-RR (SHBG antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



1x10<sup>6</sup> HeLa cells were intracellularly stained with 0.25 ug SHBG Recombinant antibody (83096-1-RR, Clone:230356F10) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 83096-1-RR against Human SHBG were performed. The affinity constant is 0.38 nM.