

Basic Information

Product Name	Anti-Fetuin A/AHSG Antibody	
Gene Name	AHSG	
Source	Rabbit	
Isotype	IgG	
Species Reactivity	human, rat	
Tested Application	WB, IHC, IHC-F, ICC, FCM, ELISA	
Contents	500 ug/ml antibody with PBS , 0.02% Na ₂ S ₂ O ₃ , 1 mg BSA and 50% glycerol.	
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human Fetuin A (33-65aa DDPETEEAALVAIDYINQNLPGWKHTLNQIDE), different from the related mouse and rat sequences by thirteen amino acids.	
concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	58KD	
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 Immunohistochemistry in frozen section (IHC-F): 1:50-400 Immunocytochemistry in fixed cells (ICC): 1:50-400 Flow cytometry (FCM): 1-3 µg/1x10 ⁶ cells ELISA: 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

Alpha-2-HS-glycoprotein (AHSG), also known as fetuin-A, is a protein that in humans is encoded by the AHSG gene. Fetuin-A belongs to the fetuin class of plasma binding proteins and is more abundant in fetal than adult blood. Its gene is mapped to 3q27. The protein is commonly present in the cortical plate of the immature cerebral cortex and bone marrow hemopoietic matrix. It is involved in several functions, such as endocytosis, brain development and the formation of bone tissue.

Selected Validation Data

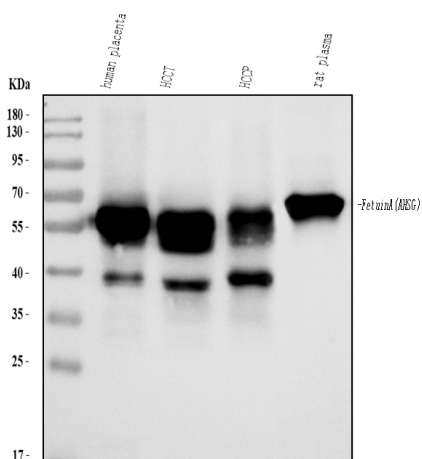


Figure 1. Western blot analysis of anti- AHSG antibody (PB0598).

The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: human placenta testis lysates,

Lane 2: human hepatocellular carcinoma tumor tissue (HCCT) lysates,

Lane 3: human hepatocellular carcinoma paracancerous tissue (HCCP) lysates,

Lane 4: rat plasma testis lysates.

Use rabbit anti- AHSG 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for AHSG at approximately 55-60KD. The expected band size for AHSG is at 39KD.

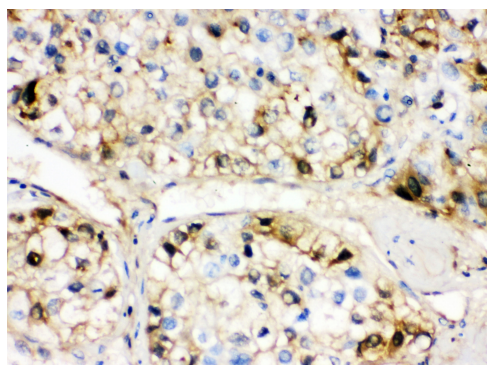


Figure 2. IHC analysis of AHSG using anti-AHSG antibody (PB0598).

AHSG was detected in paraffin-embedded section of Human Liver Cancer Tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1μg/ml rabbit anti-AHSG Antibody (PB0598) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

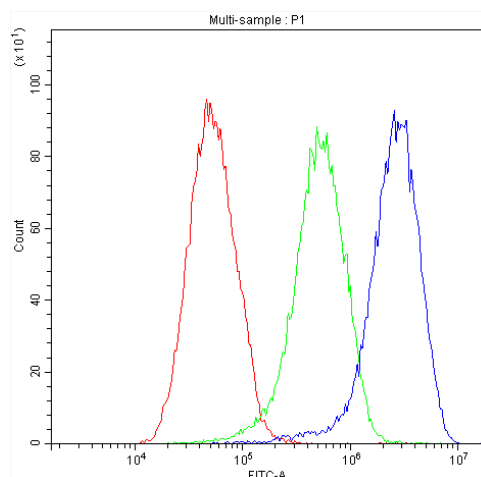


Figure 3. Flow Cytometry analysis of HEPG2 cells using anti-Fetuin A antibody (PB0598). Overlay histogram showing HEPG2 cells stained with PB0598 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Fetuin A Antibody (PB0598, 1μg/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10μg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

Product datasheet

Anti-Fetuin A/AHSG Antibody

Catalog Number: **PB0598**



antibody and ELISA experts

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