

anti-Human, Rat AHSG Polyclonal Antibody | anti-AHSG antibody

Anti-AHSG Antibody

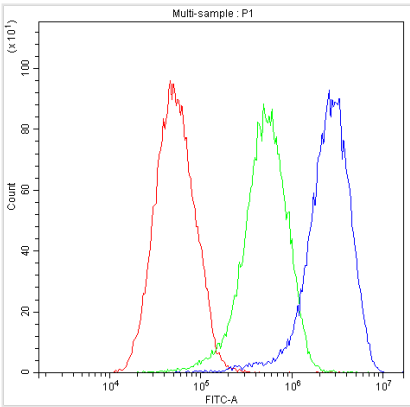
CATALOG # AAA46320	REACTIVITY Human, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

AHSG; Polyclonal Antibody; Anti-AHSG Antibody; Alpha-2-HS-glycoprotein; 59 kDa bone sialic acid-containing protein; A2HS; Aa2-066; AHS; Ahsg alpha-2-HS-glycoprotein; Ahsg; Alpha 2 HS Glycoprotein; Alpha 2 Z globulin; Alpha-2-HS-glycoprotein chain B; Alpha-2-Z-globulin; Asialofetuin; Ba alpha 2 glycoprotein; Ba-alpha-2-glycoprotein; BSP; Countertrypsin; Fetua; FETUA_HUMAN; Fetuin; mouse; homolog of; Fetuin A; Fetuin-A; Glycoprotein PP63; HSGA; pp63; alpha-2-HS-glycoprotein; anti-AHSG antibody

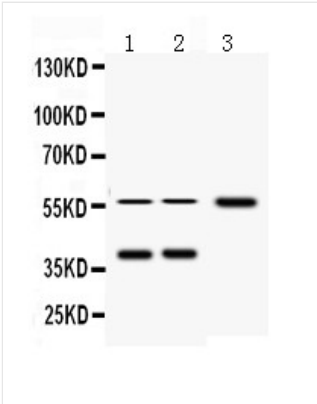
PRODUCT SPECIFICATIONS

Reactivity	Human, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	367
Applicable Applications for anti-AHSG antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human AHSG (33-65aa DDPETEEAALVAIDYINQNLPGYKHTLNQIDE), different from the related mouse and rat sequences by thirteen amino acids.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



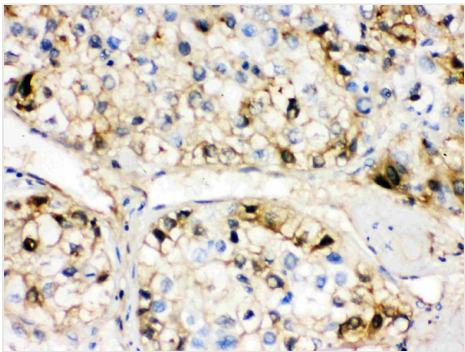
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of HEPG2 cells using anti-Fetuin A antibody (AAA46320).Overlay histogram showing HEPG2 cells stained with AAA46320 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Fetuin A Antibody (AAA46320,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of AHSG using anti-AHSG antibody (AAA46320).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: Rat Brain Tissue Lysate,Lane 2: RH35 Whole Cell Lysate,Lane 3: MCF-7 Whole Cell Lysate.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-AHSG antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for AHSG at approximately 58KD. The expected band size for AHSG is at 39KD.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of AHSG using anti-AHSG antibody (AAA46320).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 1ug/ml rabbit anti-AHSG Antibody (AAA46320) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-AHSG antibody

Description: Rabbit IgG polyclonal antibody for Alpha-2-HS-glycoprotein(AHSG) detection. Tested with WB, IHC-P, ELISA in Human;Rat.

Background: 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.

References	1. "Entrez Gene: AHSG alpha-2-HS-glycoprotein". 2. Osawa M, Umetsu K, Sato M, Ohki T, Yukawa N, Suzuki T, Takeichi S (September 1997). "Structure of the gene encoding human alpha 2-HS glycoprotein (AHSG)". Gene 196 (1-2): 121-5. 3. Rizzu P, Baldini A (1995). "Three members of the human cystatin gene superfamily, AHSG, HRG, and KNG, map within one megabase of genomic DNA at 3q27". Cytogenet. Cell Genet. 70 (1-2): 26-8.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	156523970
NCBI GeneID	197
NCBI Accession #	NP_001613.2
NCBI GenBank Nucleotide #	NM_001622.2
UniProt Accession #	P02765; O14961; O14962; Q9P152; A8K9N6; B2R7G1; AAB29984
Molecular Weight	39,325 Da
NCBI Official Full Name	alpha-2-HS-glycoprotein preproprotein
NCBI Official Synonym Full Names	alpha-2-HS-glycoprotein
NCBI Official Symbol	AHSG
NCBI Official Synonym Symbols	AHS; A2HS; HSGA; FETUA
NCBI Protein Information	alpha-2-HS-glycoprotein
UniProt Protein Name	Alpha-2-HS-glycoprotein
UniProt Gene Name	AHSG
UniProt Synonym Gene Names	FETUA
UniProt Entry Name	FETUA_HUMAN

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