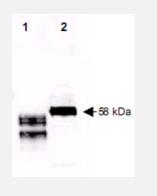
AHSG polyclonal antibody

Catalog # PAB10313 Size 500 ug

Applications



Western Blot (Tissue lysate)

Immunoblot of AHSG polyclonal antibody (Cat # PAB10313), generated by immunization with mature protein, was tested by immunoblot against AHSG in purified preparations and in human plasma. Lane 1 contains 250 ng of purified human AHSG. Lane 2 contains 5 uL of a 1 : 50 dilution of human serum. Dilution of Anti-human AHSG antibody between 1 : 10,000 and 1 : 20,000 showed strong reactivity by immunoblot. In this blot the antibody was used at a 1 : 10,000 dilution incubated 1 h at room temperature in 1% BSA in TTBS. Detection occurred using a 1 : 5,000 dilution of IRDye ™800 conjugated Donkey anti-Goat IgG for 45 min at room temperature. LICOR's Odyssey® Infrared Imaging System was used to scan and process the image.

Specification	
Product Description	Goat polyclonal antibody raised against a recombinant AHSG.
Immunogen	Recombinant protein corresponding to human AHSG.
Host	Goat
Reactivity	Human
Form	Lyophilized
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Recommend Usage	ELISA (1:40000-1:200000) Western Blot (1:10000-1:20000) The optimal working dilution should be determined by the end user.

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Product Information

Storage Buffer	Lyophilized from 20 mM KH ₂ PO ₄ , 150 mM NaCI, pH 7.2 (0.01% sodium azide)
Storage Instruction	Store at 4°C on dry atmosphere. After reconstitution with deionized water, store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

• Western Blot (Tissue lysate)

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Lane 1 contains 250 ng of purified human AHSG.

Lane 2 contains 5 uL of a 1 : 50 dilution of human serum.

Dilution of Anti-human AHSG antibody between 1 : 10,000 and 1 : 20,000 showed strong reactivity by immunoblot.

In this blot the antibody was used at a 1 : 10,000 dilution incubated 1 h at room temperature in 1% BSA in TTBS.

Detection occurred using a 1 : 5,000 dilution of IRDye™800 conjugated Donkey anti-Goat IgG for 45 min at room temperature. LICOR's Odyssey® Infrared Imaging System was used to scan and process the image.

Enzyme-linked Immunoabsorbent Assay

Gene Info — AHSG	
Entrez GenelD	<u>197</u>
Gene Name	AHSG
Gene Alias	A2HS, AHS, FETUA, HSGA
Gene Description	alpha-2-HS-glycoprotein
Omim ID	<u>138680</u>
Gene Ontology	Hyperlink
Gene Summary	Alpha2-HS glycoprotein (AHSG), a glycoprotein present in the serum, is synthesized by hepatocyt es. The AHSG molecule consists of two polypeptide chains, which are both cleaved from a propro tein encoded from a single mRNA. It is involved in several functions, such as endocytosis, brain d evelopment and the formation of bone tissue. The protein is commonly present in the cortical plate of the immature cerebral cortex and bone marrow hemopoietic matrix, and it has therefore been p ostulated that it participates in the development of the tissues. However, its exact significance is s till obscure. [provided by RefSeq
Other Designations	Alpha-2HS-glycoprotein fetuin-A

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Publication Reference

• <u>The serum protein alpha 2-Heremans-Schmid glycoprotein/fetuin-A is a systemically acting inhibitor of ectopic</u> <u>calcification.</u>

Schafer C, Heiss A, Schwarz A, Westenfeld R, Ketteler M, Floege J, Muller-Esterl W, Schinke T, Jahnen-Dechent W. The Journal of Clinical Investigation 2003 Aug; 112(3):357.

Interactions of alpha2-HS-glycoprotein (fetuin) with MMP-3 and murine squamous cell carcinoma cells.

Leite-Browning ML, McCawley LJ, Choi OH, Matrisian LM, Ochieng J. International Journal of Oncology 2002 Nov; 21(5):965.

Application: IHC-P, Human, Liver, Squamous cell carcinoma

Changes with age of the rat fetuin concentration in serum and its mRNA expression.

Kazi JA, Nakamura O, Ohnishi T, Arakaki N, Kajihara T, Nakagawa S, Daikuhara Y. Journal of Biochemistry 1998 Jul; 124(1):179.

Disease

- <u>Alzheimer disease</u>
- Atherosclerosis
- Body Weight
- <u>Calcinosis</u>
- <u>Cardiovascular Diseases</u>
- <u>Carotid Artery Diseases</u>
- Coronary Disease
- Delayed Graft Function
- Diabetes Mellitus
- Diabetic Angiopathies
- Diabetic Nephropathies
- Dyslipidemias

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- Edema
- Endometriosis
- Genetic Predisposition to Disease
- Inflammation
- Insulin Resistance
- <u>Kidney Failure</u>
- <u>Malnutrition</u>
- <u>Metabolic Syndrome X</u>
- <u>Nephrolithiasis</u>
- <u>Obesity</u>
- Osteoporosis
- Postoperative Complications
- Thinness
- Tobacco Use Disorder
- <u>Vascular Diseases</u>