

Datasheet for ABIN303068
anti-Fetuin A antibody



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1 Image

Overview

Quantity:	50 µg
Target:	Fetuin A (AHSG)
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Conjugate:	This Fetuin A antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Recombinant protein
Specificity:	This antibody reacts to recombinant fetuin (α2-HS glycoprotein) processed to remove a 40 amino acid residue bridging peptide resulting in the mature form of the protein.
Purification:	Purified

Target Details

Target:	Fetuin A (AHSG)
Alternative Name:	alpha-2-HS-Glycoprotein (AHSG Products)
Background:	Human fetuin (2-Heremans-Schmid-glycoprotein or α2-HS glycoprotein) is a major plasma glycoprotein predominantly synthesized in the liver. Human fetuin is named after its bovine homolog. Fetuins are found in most mammals. Human fetuin is a negative acute-phase protein,

Target Details

normal circulating levels in adults (300600 g/mL) fall significantly (3050 %) during injury and infection. The biological role of fetuin is unknown, although it has been implicated as an immunomodulator that can participate in stimulation of bacterial phagocytosis by neutrophils and promotion of endocytosis by mouse macrophages. Hepatocytes are the principal cell source of circulating fetuin, but it also is expressed by monocyte/macrophages. Fetuins occur in large amounts in blood and cerebrospinal fluid and accumulate to high concentrations in calcified bone. The fetuin promoter region has several potential interleukin 6-responsive elements, and its synthesis is down-regulated during injury and inflammation. Fetuin is an acidic glycoprotein with three N-linked and three O-linked oligosaccharide chains, whose terminal sugar residues are rich in sialic acid (N-acetylneuraminic acid), contributing to its net negative charge. A role for fetuin as a carrier of bioactive molecules has been proposed based on observations that it binds and carries Ca²⁺ ion. Fetuin is implicated in bone remodeling, immune function and may play a role in tumor progression of certain cell types. Fetuin plays a role as an anti-inflammatory agent by suppressing the release of TNF from stimulated macrophages. Fetuin also interacts with members of the matrix metalloprotease family of zinc dependent secreted transmembrane proteins that degrade basement membranes and extracellular matrix components. The biological activity of fetuin is mediated through its direct interaction with other proteins. Fetuin down-regulates a number of receptor tyrosine kinase family members. A motif within fetuin has homology to the TGF- β receptor type II. Circulating human plasma fetuin is partly phosphorylated which implies that phosphorylated fetuin may have a physiological function in vivo. Human fetuin isolated from plasma is a two-chain molecule consisting of a A-chain of 322 amino acid residues (53 kDa) and a B-chain of 27 residues (5 kDa). The carboxy terminal 40 amino acids of the A chain constitute a bridging peptide that may be removed proteolytically in vivo. A single mRNA encodes both the A and B chains. The apparent molecular weight of intact human fetuin is 58 kDa. Synonyms: AHSG, Alpha-2-Z-globulin, Ba-alpha-2-glycoprotein, FETUA, Fetuin A, PRO2743

Gene ID:	197
NCBI Accession:	NP_001613
UniProt:	P02765

Application Details

Application Notes:	Immunoprecipitation. Immunohistochemistry on paraffin sections: 2,5 µg/mL. Western Blot: 1: 10000 - 1: 20000. ELISA. Other applications not tested.
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Application Details

Optimal dilutions are dependent on conditions and should be determined by the user.

Restrictions: For Research Use only

Handling

Concentration:	1.0 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M NaCl, pH 7.2 with 0.09 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

Images

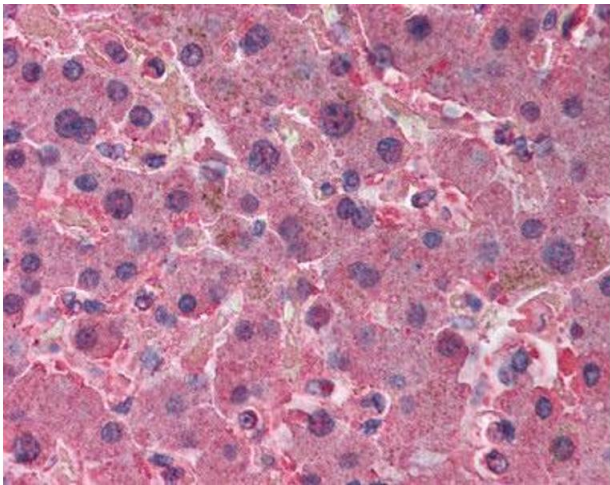


Image 1.