

DESCRIPTION

Species Reactivity	Rat
Specificity	Detects rat Fetuin A/AHSG in direct ELISAs. In direct ELISAs and Western blots, no cross-reactivity with recombinant human Fetuin A or recombinant mouse Fetuin A is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 774761
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant rat Fetuin A/AHSG Ala19-I352 Accession # P24090
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Fetuin A, also known as α2-Heremans-Schmid glycoprotein, is encoded by the AHSG gene. It has been also called "countertrypsin" because of its ability to inhibit trypsin (1). Fetuin A is a major plasma protein and a member of the cystatin superfamily of protease inhibitors (2, 3). It is expressed by hepatocytes, the principal cell source, and by monocyte/macrophages (4). The major form of plasma Fetuin A corresponds to two disulfide bond-linked chains derived from the single chain (5). Fetuin A has a number of functions. It is a negative acute-phase protein with normal circulating levels in adults (300-600 µg/mL) which fall significantly (30-50%) during injury and infection (5). It enhances entry of cationic inhibitors into macrophages (6). It inhibits both insulin receptor autophosphorylation and undesirable calcification (7, 8). Mature rat Fetuin A shares 60% and 85% aa sequence identity with human and mouse Fetuin A, respectively.

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