

Rat Fetuin A/AHSG Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF7510

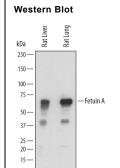
DESCRIPTION			
Species Reactivity	Rat		
Specificity	Detects rat Fetuin A/AHSG in direct ELISAs and Western blots. In direct ELISAs, approximately 20% cross-reactivity with recombinant metuin A is observed, and less than 3% cross-reactivity with recombinant human Fetuin A is observed.		
Source	Polyclonal Sheep IgG		
Purification	Antigen Affinity-purified		
Immunogen	Mouse myeloma cell line NS0-derived recombinant rat Fetuin A/AHSG Ala19-lle352 Accession # P24090		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

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.

	Recommended Concentration	Sample
Western Blot	0.2 μg/mL	See Below

DATA



Detection of Rat Fetuin A/AHSG by Western Blot. Western blot shows lysates of rat liver tissue and rat lung tissue. PVDF membrane was probed with 0.2 µg/mL of Sheep Anti-Rat Fetuin A/AHSG Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7510) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for Fetuin A/AHSG at approximately 59-64 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution Sterile PBS to a final concentration of 0.2 mg/mL.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Fetuin A (from the Latin word fetus for "offspring"; also α2-HS [Heremans and Schmid] glycoprotein/AHSG, 59 kDa BSP and pp63) is a 59-63 kDa soluble, highly glycosylated type 3 member of the fetuin family of proteins. Originally isolated from fetal calf serum, rat fetuin A is now reported to be secreted by hepatocytes and, possibly, osteoblasts. Functionally, fetuin A appears to complex with matrix Gla protein, bind calcium phosphate and to regulate matrix mineralization. While it does not dissolve existing mineral, it does inhibit unwarranted tissue mineralization and the inflammatory reaction that accompanies it. A role for fetuin A in the regulation of insulin receptor signaling is unclear. Mature rat fetuin A is 334 amino acids (aa) in length. It contains two cystatin fetuin A type I domains (aa 19-133 and 144-250) that control mineralization, and a C-terminal domain (aa 255-352) that may interact with the insulin receptor. There are at least four utilized phosphorylation sites at Ser138, 313, 316 and 318, and one potential internal cleavage site between Arg143-Lys144 that, if utilized, would generate a disulfide-linked heterodimer. Mature rat fetuin A shares 85% and 61% aa sequence identity with mouse and human fetuin A, respectively.

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