

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Afamin in ELISA and Western blot.
Source	Monoclonal Mouse IgG ₁ Clone # 883113
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	HEK293 human embryonic kidney cell line transfected with human Afamin Leu22-Asn599 Accession # P43652
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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

Afamin, also known as AFM or α-Albumin, is a secreted monomeric glycoprotein member of the Alb/albumin family of molecules. Although its MW in SDS-Page ranges from 84-88 kDa, MALDI-TOF analysis yields a likely more correct value of 70-75 kDa. It is expressed by hepatocytes, CNS endothelial cells and osteoclasts, and circulates in the blood at low µg/mL concentrations. Afamin is known to bind and transport vitamin E, particularly under conditions where lipoprotein is limited. This is likely to be important in follicular fluid and CSF. It also serves as an osteoclast-derived chemoattractant for preosteoblasts, providing a rationale for the observation that bone formation often follows bone resorption. Mature human Afamin is 578 amino acids (aa) in length (aa 22-599). It contains three consecutive albumin domains (aa 36-206, 211-403 and 404-599) that contain a characteristic 5 or 6 intrachain disulfide bonds. Full-length human Afamin shares 67% aa sequence identity with mouse Afamin.

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