Human Afamin Antibody

Monoclonal Mouse IgG_1 Clone # 883113

Catalog Number: MAB8065

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
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 as a 0.2 μm filtered solution in PBS.

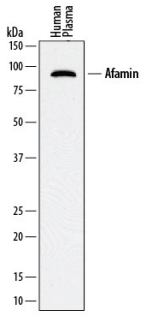
APPLICATIONS

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	0.5 µg/mL	See Below

DATA

Western Blot



Detection of Human Afamin by Western Blot. Western blot shows human plasma. PVDF membrane was probed with 0.5 µg/mL of Mouse Anti-Human Afamin Monoclonal Antibody (Catalog # MAB8065) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Afamin at approximately 85-90 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
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
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 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

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 rational 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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