

Human α 1B-Glycoprotein Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF7757

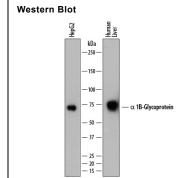
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human α 1B-Glycoprotein in direct ELISAs and Western blots.		
Source	Polyclonal Sheep IgG		
Purification	Antigen Affinity-purified		
Immunogen	Human embryonic kidney cell line HEK293-derived recombinant human α 1B-Glycoprotein Ala22-Ser495 Accession # EAW72575		
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.

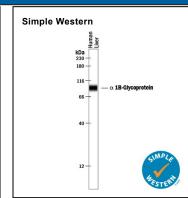
	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below
Simple Western	10 μg/mL	See Below

DATA



Detection of Human α 1B-Glycoprotein by Western Blot.

Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line and human liver tissue. PVDF membrane was probed with 1 μ g/mL of Sheep Anti-Human α 1B-Glycoprotein Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7757) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for α 1B-Glycoprotein at approximately 70-75 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.



Detection of Human α 1B-Glycoprotein by Simple WesternT^{IM}. Simple Western lane view shows lysates of human liver tissue, loaded at 0.2 mg/mL. A specific band was detected for α 1B-Glycoprotein at approximately 94 kDa (as indicated) using 10 μg/mL of Sheep Anti-Human α 1B-Glycoprotein Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7757) followed by 1:50 dilution of HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.2 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

A1BG (alpha-1 B/beta-glycoprotein; also C44 [in rodent]) is a 68-80 kDa monomeric plasma glycoprotein member of the Immunoglobulin superfamily of molecules. It is expressed by multiple cell types, principally hepatocytes in response to circulating growth hormone. Initially thought to act as an MMP inhibitor, A1BG is now known to bind to CRISP3, a distant member of a family of venomous molecules. CRISP3 is widely expressed and possesses no toxic properties. But it may play a key role in fertilization, where it temporarily blocks the reaction of PMNs to sperm in the uterus, thus increasing sperm lifespan and the likelihood of fertilization. Within this context, A1BG may regulate CRISP3 availability. A1BG has also been investigated as a biomarker in various cancers. Mature human A1BG is 474 amino acids (aa) in length (aa 22-495) and contains five V-type Ig-like domains. There is one isoform variant that utilizes Met123 as an alternative start site. Full-length human A1BG (aa 22-495) shares only 44% aa sequence identity with mouse A1BG.

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