

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human α 1-Acid Glycoprotein in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant mouse α 1-Acid Glycoprotein is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Human plasma-derived α 1-Acid Glycoprotein
Formulation	Lyophilized from a 0.2 μ m 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 μ m filtered solution in PBS.

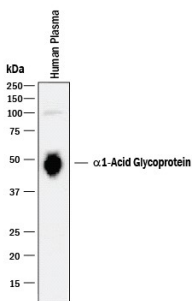
APPLICATIONS

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	0.1 μ g/mL	See Below
Simple Western	5 μ g/mL	See Below

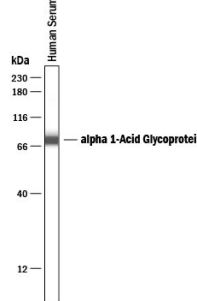
DATA

Western Blot




Detection of Human α 1-Acid Glycoprotein by Western Blot. Western blot shows human plasma. PVDF membrane was probed with 0.1 μ g/mL of Goat Anti-Human α 1-Acid Glycoprotein Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3694) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for α 1-Acid Glycoprotein at approximately 45-50 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Simple Western



Detection of Human α 1-Acid Glycoprotein by Simple Western™. Simple Western lane view shows lysates of human serum, loaded at 1:5000. A specific band was detected for α 1-Acid Glycoprotein at approximately 79 kDa (as indicated) using 5 μ g/mL of Goat Anti-Human α 1-Acid Glycoprotein Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3694) followed by 1:50 dilution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). 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. <ul style="list-style-type: none"> ● 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

α 1-acid Glycoprotein, also known as orosomucoid-1, is a positive acute-phase reactant that is produced by the liver and secreted in plasma. Plasma α 1-acid concentration increases in response to inflammation and infection. α 1-acid glycoprotein belongs to the lipocalin family and binds numerous basic and neutral lipophilic drugs and steroid hormones. It is a 183 amino acid protein with 5 N-linked glycans that comprises 45% of the 43 kDa mass of the protein. The human and mouse protein share 43% amino acid sequence identity.