Human α1-Acid Glycoprotein Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF3694

DESCRIPTION
Species Reactivity Human
Specificity Detects human α1-Acid Glycoprotein in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant mouse α1-Acid Glycoprotein is observed.
Source Polyclonal Goat IgG
Purification Antigen Affinity-purified
Immunogen Human plasma-derived α1-Acid Glycoprotein
Formulation Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

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.

<table>
<thead>
<tr>
<th>Recommended Concentration</th>
<th>Sample</th>
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<tbody>
<tr>
<td>Western Blot</td>
<td>0.1 μg/mL</td>
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<tr>
<td>Simple Western</td>
<td>5 μg/mL</td>
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</tbody>
</table>

DATA

Western Blot
Detection of Human α1-Acid Glycoprotein by Western Blot. Western blot shows human plasma. PVDF membrane was probed with 0.1 μg/mL of Goat Anti-Human α1-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 α1-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 α1-Acid Glycoprotein by Simple WesternTM. Simple Western lane view shows lysates of human serum, loaded at 1:5000. A specific band was detected for α1-Acid Glycoprotein at approximately 79 kDa (as indicated) using 5 μg/mL of Goat Anti-Human α1-Acid Glycoprotein Antibody 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 supplied either lyophilized or as a 0.2 μm filtered solution in PBS.
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
α1-Acid Glycoprotein, also known as orosomucoid-1, is a positive acute-phase reactant that is produced by the liver and secreted in plasma. Plasma α1-acid concentration increases in response to inflammation and infection. α1-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.