PROS1
Polyclonal ANTIBODY
Catalog Number: 16910-1-AP

Basic Information
Catalog Number: 16910-1-AP
Size: 20 μg/150 μl
Source: Rabbit
Isotype: IgG
Purification Method: Antigen affinity purification
Immunogen Catalog Number: AG10539
GenBank Accession Number: BC015801
Gene ID (NCBI): 5627
Full Name: protein S (alpha)
Calculated MW: 75 kDa
Observed MW: 70 kDa

Recommended Dilutions:
WB: 1:500-1:1000
IHC: 1:20-1:200
IF: 1:50-1:500

Recommended Applications:
ELISA, IF, IHC, WB
Cited Applications:
FC, IF, IHC, WB

Species Specificity:
human, mouse
Cited Species:
human, mouse

Applications
Tested Applications:
ELISA, IF, IHC, WB
Cited Applications:
FC, IF, IHC, WB

Species Specificity:
human, mouse
Cited Species:
human, mouse

Positive Controls:
WB: human placenta tissue, human placenta tissue, mouse placenta tissue
IHC: human liver tissue
IF: HepG2 cells

Background Information
PROS1, also named as vitamin K-dependent protein S, is a 676 amino acid protein, which contains 4 EGF-like domains, contains one Gla (gamma-carboxyglutamate) domain and contains 2 laminin G-like domains. PROS1 as a secreted protein platelets alpha granules is expressed in plasma. PROS1 is a cofactor to activated protein C in the degradation of coagulation factors Va and VIIIa and helps to prevent coagulation and stimulating fibrinolysis.

Notable Publications

<table>
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<tr>
<th>Author</th>
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<th>Application</th>
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<tbody>
<tr>
<td>Zhao Hu Wang</td>
<td>26617409</td>
<td>Mol Med Rep</td>
<td>IF</td>
</tr>
<tr>
<td>Tang Liang L</td>
<td>23131360</td>
<td>Am J Hematol</td>
<td>WB, IF</td>
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<tr>
<td>Higuchi Yoshihiro Y</td>
<td>22482716</td>
<td>Am J Physiol Heart Circ Physiol</td>
<td>WB, IHC</td>
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Storage
Store at -20°C. Stable for one year after shipment.
Storage Buffer: PBS with 0.05% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage.

For technical support and original validation data for this product please contact:
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
**Selected Validation Data**

- Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 16910-1-AP (PROS1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

- Human placenta tissue were subjected to SDS-PAGE followed by western blot with 16910-1-AP (PROS1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.

- Immunohistochemical analysis of paraffin-embedded human liver using 16910-1-AP (PROS1 antibody) at dilution of 1:100 (under 10x lens).

- Immunohistochemical analysis of paraffin-embedded human liver using 16910-1-AP (PROS1 antibody) at dilution of 1:100 (under 40x lens).