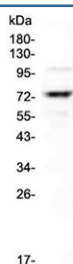


## PROS1 Antibody / Vitamin K-dependent protein S (RQ4376)

Catalog No.	Formulation	Size
RQ4376	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Antigen affinity purified
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity purified
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
<b>UniProt</b>	P07225
<b>Localization</b>	Nucleus
<b>Applications</b>	Western Blot : 0.5-1ug/ml Direct ELISA : 0.1-0.5ug/ml
<b>Limitations</b>	This PROS1 antibody is available for research use only.



Western blot testing of human HepG2 cell lysate with PROS1 antibody at 0.5ug/ml.  
Predicted molecular weight ~75 kDa.

### Description

This PROS1 gene encodes a vitamin K-dependent plasma protein that functions as a cofactor for the anticoagulant protease, activated protein C (APC) to inhibit blood coagulation. It is found in plasma in both a free, functionally active form and also in an inactive form complexed with C4b-binding protein. Mutations in this gene result in autosomal dominant hereditary thrombophilia. An inactive pseudogene of this locus is located at an adjacent region on chromosome 3. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate mature protein.

## Application Notes

Optimal dilution of the PROS1 antibody should be determined by the researcher.

## Immunogen

A recombinant human protein corresponding to amino acids L291-S676 was used as the immunogen for the PROS1 antibody.

## Storage

After reconstitution, the PROS1 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.