abcam

## Product datasheet

# Recombinant Human Protein S ab159231

1 Image

### Description

| | |
|---|---|
| **Product name** | Recombinant Human Protein S |
| **Expression system** | Wheat germ |
| **Protein length** | Protein fragment |
| **Animal free** | No |
| **Nature** | Recombinant |
| **Species** | Human |
| **Sequence** | GLLETKVYFAGFPRKVESELIKPINPRLDGCIRSWNLMKQG ASGIKEIIQ EKQNKHCLVTVEKGSYYPGSGIAQFHIDYNNVSSAEGWHV NVTLNIRP |
| **Amino acids** | 419 to 516 |
| **Tags** | GST tag N-Terminus |

### Specifications

Our **Abpromise guarantee** covers the use of **ab159231** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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|---|---|
| **Applications** | Western blot<br>ELISA |
| **Form** | Liquid |
| **Additional notes** | |

### Preparation and Storage

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|---|---|
| **Stability and Storage** | Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles.<br>pH: 8.00<br>Constituents: 0.31% Glutathione, 0.79% Tris HCl |

### General Info

## General info

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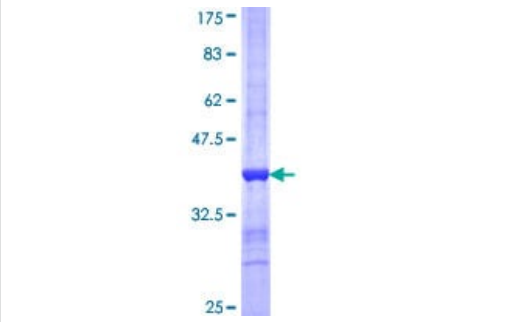
|---|---|
| **Function** | Anticoagulant plasma protein; it is a cofactor to activated protein C in the degradation of coagulation factors Va and VIIIa. It helps to prevent coagulation and stimulating fibrinolysis. |
| **Tissue specificity** | Plasma. |
| **Involvement in disease** | Defects in PROS1 are the cause of protein S deficiency (PROS1D) [MIM:612336]; also known as thrombophilia due to protein S deficiency. PROS1D is a cause of hereditary thrombophilia, a hemostatic disorder characterized by impaired regulation of blood coagulation and a tendency to recurrent venous thrombosis. However, many adults with heterozygous disease may be asymptomatic. Based on the plasma levels of total and free PROS1 antigen as well as the serine protease-activated protein C cofactor activity, three types of PROS1D have been described: type I, characterized by reduced total and free PROS1 antigen levels together with reduced anticoagulant activity; type III, in which only free PROS1 antigen and PROS1 activity levels are reduced; and the rare type II which is characterized by normal concentrations of both total and free PROS1 antigen, but low cofactor activity. |
| **Sequence similarities** | Contains 4 EGF-like domains.<br>Contains 1 Gla (gamma-carboxy-glutamate) domain.<br>Contains 2 laminin G-like domains. |
| **Post-translational modifications** | The iron and 2-oxoglutarate dependent 3-hydroxylation of aspartate and asparagine is (R) stereospecific within EGF domains. |
| **Cellular localization** | Secreted. |

## Images




SDS-PAGE - Recombinant Human Protein S (ab159231)

ab159231 on a 12.5% SDS-PAGE stained with Coomassie Blue.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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