abcam

Product datasheet

Anti-Protein S antibody [PS7] (FITC) ab81713

Overview

Product name	Anti-Protein S antibody [PS7] (FITC)
Description	Rat monoclonal [PS7] to Protein S (FITC)
Host species	Rat
Conjugation	FITC. Ex: 493nm, Em: 528nm
Tested applications	**Suitable for:** WB, Flow Cyt
Species reactivity	**Reacts with:** Human
Immunogen	Full length protein
General notes	0.2µM filtered.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	Preservative: 0.02% Sodium azide Constituents: 1% BSA, PBS
Purity	Protein G purified
Clonality	Monoclonal
Clone number	PS7
Isotype	IgG2a

Applications

Our Abpromise guarantee covers the use of **ab81713** in the following tested applications.

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

Application	Abreviews	Notes
WB		1/50. Predicted molecular weight: 75 kDa.

Application	Abreviews	Notes
Flow Cyt		1/50. ab18446 - Rat monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

Target

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. Contains 1 Gla (gamma-carboxy-glutamate) domain. 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.

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