

Product datasheet for AM26230FC-N

Protein S (PROS1) Rat Monoclonal Antibody [Clone ID: PS7]

Product data:

Product Type: Primary Antibodies

Clone Name: PS7
Applications: WB

Recommended Dilution: Flow Cytometry: 1/50.

Western blot: 1/50.

Reactivity: Human

Host: Rat

Isotype: IgG2a

Clonality: Monoclonal

Specificity: Monoclonal antibody PS7 is specific for human Protein S (PS), a vitamin K-dependent plasma

glycoprotein with a molecular weight of approximately 70 kDa. Allows specific detection of cells carrying PS by flow cytometry.

Formulation: PBS

Label: FITC

State: Liquid 0.2 µm filtered Ig fraction

Stabilizer: 1% BSA

Preservative: 0.02% Sodium Azide

Concentration: lot specific

Purification: Protein G Chromatography

Conjugation: FITC

Storage: Store undiluted at 2-8°C.

Stability: Shelf life: one year from despatch.

Gene Name: protein S (alpha)

Database Link: Entrez Gene 5627 Human

P07225



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Background:

In humans, PS is mainly synthesized by hepatocytes. Mature PS has a modular structure consisting of a Gla-domain containing a short aromatic stack, a region sensitive to cleavage by thrombin and factor Xa , 4 epidermal growth factor (EGF)-like domains, and a sex hormone-binding globulin-like region. The biologic function of PS thought to be of primary importance is its ability to enhance Activated Protein C-dependent proteolytic inactivation of factors Va and VIIIa, which are respectively the cofactors in the pro-thrombinase and tenase complexes of the coagulation cascade. In this way, PS plays an important role in regulating thrombin generation, and therefore controlling procoagulant activity. Crucial to the APC-dependent functions of PS is the high-affinity interaction between PS and negatively charged phospholipid surfaces, conferred by calcium-induced folding of the amino-terminal Gladomain.

Synonyms:

PROS