



## **Monoclonal antibody against human Protein S**

**Product No. BP232-11**

**american diagnostica gmbh**

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### **Description**

Protein S is a vitamin K-dependent, potent neutral anticoagulant plasma glycoprotein. Protein S has a molecular weight of approximately 70 kDa and consists of a single polypeptide chain. The concentration of protein S in human plasma is 25 µg/ml, with a half-life of approximately two days. About 40% of Protein S in plasma is in a free form, whereas 60% is complexed with C4b-binding Protein (C4BP). Only the free Protein S functions as a cofactor to antigen presenting cells (APC) in the APC-dependent degradation of Factor Va and Factor VIIIa.

### **Preparation**

No. BP232-11 is a mouse IgG2b/k monoclonal antibody purified from cell culture supernatant by Protein A/G affinity chromatography. Protein S isolated from human plasma was used as the immunizing antigen.

### **Specificity**

BP232-11 has specificity for human Protein S.

### **Reactivity**

BP232-11 reacts strongly with protein S. Strong reaction is seen in sandwich ELISA in combination with a biotin-labelled antibody against protein S. Reactivity is Ca<sup>++</sup> dependent and is optimal when using a Tris-buffer containing 1 mM CaCl<sub>2</sub>. In Dot blotting SDS-treatment abolishes the reactivity.

### **Presentation**

Screw capped vial containing 100 µg of purified IgG. Concentration 1 mg/ml 0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15 mM sodium azide.

### **Storage and Stability**

Store the antibody at 2°-8°C. The antibody may be aliquoted and stored frozen at -20°C or colder. It is recommended to avoid freeze-thaw cycles.

### **Applications**

ELISA

### **References**

1. Law SKA, Reid KBM (1988) Complement. In: In Focus (Ed. Male D) IRL Press: Oxford.
2. Bendtzen K et al (2000) Basal og klinisk immunologi. FADL's Forlag A/S, Copenhagen.