

**Anti Protein S (human)
mouse monoclonal antibody**Subclass: IgG_{2b}/k

PRODUCT NO.

HYB 232-11

PRESENTATION

Preparation: Protein-A/G purified
 Content: Available in 200 µL and 1 mL, 1 mg/mL
 Solvent: 0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15 mM sodium azide
 Storage: In the dark at 4-8°C

ANTIGEN

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.

IMMUNOGEN

Protein S isolated from human plasma

SPECIFICITY

HYB 232-11 has specificity for human protein S

EPITOPE SPECIFICITY

Epitope specificity differs from that of HYB 232-02

REACTIVITY

HYB 232-11 reacts strongly with protein S. Strong reaction is seen in sandwich ELISA in combination with a biotinlabeled antibody against protein S. Reactivity is Ca⁺⁺ dependent and is optimal when using a tris-buffer containing 1 mM CaCl₂. In Dot blotting SDS-treatment abolishes the reactivity.

CULTURE MEDIUM

RPMI 1640 with 10% fetal calf serum

FUSION PARTNER

X63-Ag8.653.

IMMUNIZATION

Female CF1 x BALB/c mice immunized i.p. with immunogen adsorbed onto Al(OH)₃

APPLICATION

Method	Usability	Dilution guideline	References
ELISA	Yes	1:20,000	
Immunoblotting	No		
Immunohistochemistry	Not determined		

The dilution guideline for ELISA is based on sandwich ELISA in combination with a polyclonal antibody against the antigen. Users should determine the optimal dilutions for their own purpose.

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.

CONDITIONS

All products are supplied on the understanding that they are for in vitro use only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The animals from which this product was derived have not been exposed to or inoculated with any livestock or poultry disease agents exotic to the United States or Western Europe, and did not originate from facilities where work with exotic disease agents affecting livestock or avian species is carried out.