

**Anti-Protein C (human)
Mouse monoclonal antibody**

Subclass: IgG1/k

PRODUCT NO.

HYB 237-01

Clone: 6B2

PRESENTATION

Preparation: Protein-A/G purified

Content: Available in 200 µL and 1 mL size. 1 mg/mL +/- 15%. See Certificate of Analysis for details.

Solvent: 0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide

Storage: 4-8°C without exposure to light. No precautions necessary during handling.

ANTIGEN

Protein C is a vitamin K-dependent serine protease that is produced in the liver and made up of 2 polypeptide chains. The 62 kDa proenzyme is activated by thrombin bound to an endothelial surface receptor and the active enzyme cleaves factor Va and VIIIa inhibiting blood coagulation. The molecular weight of the active enzyme is 55kDa and the normal concentration in human plasma is approximately 1-3 ng/ml while the concentration of the proenzyme is approximately 3 µg/ml due to the very fast turnover.

IMMUNOGEN

Protein C isolated from human plasma and adsorbed onto aluminum hydroxide gel

SPECIFICITY

HYB 237-01 reacts with human protein C

EPI TOPE SPECIFICITY

Epitope specificity differs from that of HYB 237-05

REACTIVITY

HYB 237-01 binds to protein C and a reaction is seen in catching ELISA in combination with a biotin labeled antigen against protein C, but only when using a tris-buffer containing 2,5 mM CaCl₂. In Western blotting after SDS-PAGE HYB 237-01 reacts with protein C in non-reduced form only.

CULTURE MEDIUM

RPMI 1640 with 10% fetal calf serum

FUSION PARTNER

X63-Ag8.653

IMMUNIZATION

Female CF1 x BALB/c mice immunized by intraperitoneal injection

APPLICATION

Method	Usability	References
ELISA	Yes	
Immunoblotting	Yes	
Immunohistochemistry	Yes	1

REFERENCES

1. www.proteinatlas.org
CONDITIONS

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