

**Anti-Complement component C4 (human)  
 Mouse monoclonal antibody**

Subclass: IgG<sub>1</sub>/k

PRODUCT NO.

**HYB 162-04**

Clone: 25.3E3

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

C4 is a component of the classical complement pathway and is split by activated C1s to C4a and C4b. Together C2a and C4b forms the classical C3 convertase (1). The molecular mass of C4 is 204 kDa and it consists of 3 domains:  $\alpha$  (97kDa),  $\beta$  (75 kDa) and  $\gamma$  (33 kDa).

IMMUNOGEN

C4 isolated from human plasma adsorbed onto aluminum hydroxide gel

SPECIFICITY

HYB 162-04 is specific for human C4

EPI TOPE SPECIFICITY

Epitope specificity differs from that of HYB 162-02, as determined by inhibition ELISA.

REACTIVITY

HYB 162-04 reacts strongly with C4. A strong reaction is seen with normal human serum, and no reaction is seen with serum depleted of C4, when tested in sandwich ELISA in combination with a polyclonal antibody against C4 (e.g. DAKO A065). HYB 162-04 also reacts with C4b deposited on coated antibody molecules. In Western blotting after SDS-PAGE, HYB 162-04 reacts with C4, in reduced as well as non-reduced forms.

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	Not determined	

REFERENCES

1. Law SKA, Reid KBM (1988) Complement. In: In Focus (Ed. Male D) IRL Press: Oxford.
2. Petersen SV, Thiel S, Jensen L, Vorup-Jensen T, Koch C, Jensenius JC (2000) Control of the classical and the MBL pathway of complement activation. Mol Immunol 37:803-11.

**CONDITIONS**

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