

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

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

PRODUCT NO.

**HYB 162-02**

Clone: 25.3F4

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 162-02 is specific for human C4b

EPI TOPE SPECIFICITY

Epitope specificity differs from that of HYB 162-04, as determined by inhibition ELISA.

REACTIVITY

HYB 162-02 reacts with C4b. A strong reaction is seen with normal human serum when tested in sandwich ELISA in combination with a polyclonal antibody against C4 (e.g. DAKO A065). No reaction is seen with C4-depleted serum. In Western blotting after SDS-PAGE, HYB 162-02 reacts with C4 in both reduced and non-reduced forms.

CULTURE MEDIUM

RPMI 1640 with 10% fetal calf serum

FUSION PARTNER

X63-Ag8.653

IMMUNIZATION

Female BALB/c mice immunized by intraperitoneal injection

APPLICATION

Method	Usability	References
ELISA	Yes	2
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**

Unless otherwise marked, all products are for research use only. Not for use in diagnostic procedures. Not for use in human therapeutic applications. For in vitro use or further manufacture only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The foregoing is in lieu of all warranties, expressed or implied, including implied warranties of merchantability and fitness for a particular purpose. In no event shall BioPorto Diagnostics A/S be responsible for loss of profits or indirect consequential losses resulting from use of its products.