



Anti Complement component C4 (human) Mouse Monoclonal Antibody

Subclass: IgG₁/κ

PRODUCT NO.	HYB 162-02
PRESENTATION	Preparation: Protein-A purified Content: 1 ml, 1 mg/mL Solvent: 0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl Storage: In the dark at 4-8°C
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 subunits: α (97kDa), β (75 kDa) and γ (33 kDa).
IMMUNOGEN	C4 isolated from human plasma
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 strongly with C4. 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. HYB 162-02 also reacts with C4b deposited on coated antibody molecules. In Western blotting after SDS-PAGE, HYB 162-02 reacts with C4 in both reduced and non-reduced forms.
CULTURE MEDIUM	Dulbecco's modified Eagle's medium with 10% fetal calf serum
FUSION PARTNER	X63-Ag8.653.
IMMUNIZATION	Female BALB/c mice immunized i.p. with immunogen adsorbed onto Al(OH) ₃ .

APPLICATION

Method	Usability	Dilution guideline	References
ELISA	Yes	1:8000	2
Immunoblotting	Yes		
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. 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

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.