ANTIBODYSHOP

PRODUCT SPECIFICATION

Anti Complement component C3 (rat)
Mouse Monoclonal Antibody

Subclass: IgG_1/κ

PRODUCT NO. **HYB 118-02**

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 4-8ºC

ANTIGEN

C3 is a key component of the complement system since the classical and the alternative activation pathways merge at the C3 activation step. The innate immune system including the complement system was the first to emerge before adaptive immune responses evolved, thus the components involved are very similar in physological different species.

IMMUNOGEN

C3 purified from rat serum

SPECIFICITY

HYB 118-02 is specific for rat C3. No cross-reaction is seen when tested with human C3.

EPITOPE SPECIFICITY

Not determined

REACTIVITY

HYB 118-02 reacts strongly with rat C3. Strong reaction is seen when tested in sandwich ELISA in combination with a polyclonal antibody against rat C3.
Administered to rats transplanted with guinea-pig hearts it prolongs xenograft survival.

CULTURE MEDIUM

Dulbecco's modified Eagle's medium 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	1:8000	
Immunoblotting	Not determined		
Immunohistochemistry	Yes		1,2

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

REFERENCES

1. Kemp E, Dieperink H, Leth P, Jensenius JC, Nielsen B, Lillevang ST, Salomon S, Steinbruchel D, Larsen S, Koch C, et al. (1994) Monoclonal antibodies to complement C3 prolong survival of discordant xenografts: guinea pig heart to rat transplantation. Transplant Proc 26:1011-1015.
2. Nielsen B, Steinbruchel DA, Lillevang ST, Salomon S, Kemp E (1994) Natural history of hamster heart rejection when transplanted to rat: a pathoanatomical study including immunohistochemistry. Transplant Proc 26:1024-1025.