

**Anti-Complement component C3 (rat)
 Mouse monoclonal antibody**

Subclass: IgG₁/k

PRODUCT NO.

HYB 118-02

Clone: 12E2

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

C3 is a key component of the complement system, because the lectin, classical and alternative activation pathways merge at the C3 activation step.

IMMUNOGEN

C3 purified from rat serum adsorbed onto aluminum hydroxide gel

SPECIFICITY

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

EPI TOPE 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

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	Not determined	
Immunohistochemistry	Yes	1,2

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.

CONDITIONS

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