

**Anti-Complement component C5 (human)
 Mouse monoclonal antibody**

Subclass: IgG₁/k

PRODUCT NO.

HYB 029-02

Clone: 12F3

PRESENTATION

Preparation: Protein-A/G purified
Content: Available in 200 µL and 1 mL volumes, 1 mg/mL
Solvent: 0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide
Storage: In the dark at 4-8°C

ANTIGEN

C5 is part of the membrane attack complex (MAC) of the complement system. C5 is split into C5a og C5b by the C5 convertases from the classical and the alternative complement pathway and the C5b fragment initiates the assembly of the terminal MAC (C5b-C9) (1). The molecular mass of C5 is 190 kDa.

IMMUNOGEN

C5 isolated from human plasma adsorbed onto aluminum hydroxide gel

SPECIFICITY

HYB 029-02 is specific for human C5. No reaction is seen with plasma from patients deficient in C5.

EPI TOPE SPECIFICITY

Epitope specificity differs from that of HYB 029-03 but slightly overlap as determined by inhibition ELISA.

REACTIVITY

HYB 029-02 reacts strongly with C5. A strong reaction is seen with normal human plasma, and no reaction is seen with plasma from patients deficient in C5, when tested in sandwich ELISA in combination with a polyclonal antibody against C5 (eg. DAKO A 055). In Western blotting after SDS-PAGE, HYB 029-02 reacts with C5 in normal human plasma (PEG precipitated C5) in nonreduced form only and no reaction is seen with plasma from C5 deficient patients.

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	Dilution guideline	References
ELISA	Yes	1/8000	
Immunoblotting	Yes		
Immunohistochemistry	Not determined		

The dilution guideline for ELISA is based on use as detection antibody for antigen coated at 0.1-1 µg/ml. Users should determine the optimal dilutions for their own purposes.

REFERENCES

1. Law SKA, Reid KBM (1988) Complement. In: In Focus (Ed. Male D) IRL Press: Oxford.

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.