ANTIBODYSHOP®

PRODUCT SPECIFICATION
04/01/2012

Anti-Complement component C2 (human)
Mouse monoclonal antibody

PRODUCT NO.

HYB 050-05

Subclass: IgG_1/k

Clone: 2 E5

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: 4-8ºC without exposure to light. No precautions necessary during handling.

ANTIGEN

Complement component C2 is a component of the classical complement pathway and is involved in activation of C3 and C5. C2 consists of a single polypeptide chain with a molecular mass of 102 kDa (2).

IMMUNOGEN

Complement component C2 isolated from human plasma adsorbed onto aluminum hydroxide gel (1)

SPECIFICITY

HYB 050-05 is specific for C2 from human plasma/serum. Cross-reactivity to C2 from other species has not been tested.

EPITOPE SPECIFICITY

Epitope specificity differs from that of HYB 050-04 and HYB 050-08 as determined by inhibition ELISA.

REACTIVITY

HYB 050-05 reacts strongly with C2. A strong reaction is seen with human serum/plasma and when used as a biotinylated detection antibody in sandwich ELISA in combination with a polyclonal antibody against C2. In Western blotting after SDS-PAGE, HYB 050-05 reacts with C2 and a subfraction of C2 believed to be C2b, but only under non-reducing conditions. A dilution guideline of 1/500 has proved successful (1).
HYB 050-05 is suitable for Sepharose column purification of C2 from plasma (3,4).

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	1
Immunoblotting	Yes	1
Immunohistochemistry	Not determined	

REFERENCES

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3. Laich A, Moffatt B, Wong KHN, Hickling TP, Koch C, Sim RB (2001) Purification of second component of human complement, C2, by antibody affinity chromatography. Intern J Bio-Chromatography 6:151-162.
4. Laich A, Sim RB (2001) Complement C4bC2 complex formation: an investigation by surface plasmon resonance. Biochim Biophys Acta 1544:96-112.

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