

**Anti-Complement component C3d (human)
 Mouse monoclonal antibody**

Subclass: IgG₁/k

PRODUCT NO.

HAV 003-05

Clone: 7C10

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 since classical and alternative activation pathways merge at the C3 activation step when C3 is split into C3a and C3b. The molecular mass of C3 is 185 kDa and it consists of two chains (110 kDa and 75 kDa) held together by disulfide bonds (1,2).

IMMUNOGEN

C3 isolated from human plasma adsorbed onto aluminum hydroxide gel

SPECIFICITY

HAV 003-05 is specific for human C3d, a fragment of the alpha chain (3)

EPI TOPE SPECIFICITY

Epitope specificity differs from that of HAV 004-01 and HYB 030-08

REACTIVITY

HAV 003-05 reacts strongly with C3. A strong reaction is seen in ELISA with human C3 coated directly onto the microtiter well, or when used as a biotinylated detection antibody in sandwich ELISA in combination with a polyclonal C3 antibody (e.g. DAKO A 062). HAV 003-05 also reacts with C3b deposited on coated antibody molecules.

In Western blotting after SDS-PAGE, HAV 003-05 reacts with C3 in both reduced and unreduced forms.

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 | 4 |
| Immunoblotting | Yes | |
| Immunohistochemistry | Not determined | |

REFERENCES

1. Law SKA, Reid KBM (1988) Complement. In: In Focus (Ed. Male D) IRL Press: Oxford.
2. Morley BJ and Walport MJ (2000) The Complement FactsBook. Academic Press, London, UK.
3. Nagar B, Jones RG, Diefenbach RJ, Isenman DE, Rini JM (1998) X-ray crystal structure of C3d: a C3 fragment and ligand for complement receptor 2. Science 280:1277-1281.
4. Koch C, Behrendt N (1986) A novel polymorphism of human complement component C3 detected by means of a monoclonal antibody. Immunogenetics 23:322-325.

CONDITIONS

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