

**Anti Complement component C3d (human)  
Mouse Monoclonal Antibody**Subclass: IgG<sub>1</sub>/kPRODUCT NO. **HYB 030-08**

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

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

SPECIFICITY HYB 030-08 is specific for human C3d, a fragment of the alpha chain (3)

EPITOPE SPECIFICITY Epitope specificity differs from that of HYB 005-01, HAV 003-05 and HAV 004-01 but slightly overlap as determined by inhibition ELISA.

REACTIVITY HYB 030-08 reacts strongly with C3. Strong reaction is seen in ELISA with C3 directly coated onto the microtiterwell, or when used as detection antibody in sandwich ELISA in combination with a polyclonal antibody against C3 (e.g. DAKO A 0062).  
In Western blotting after SDS-PAGE, HYB 030-08 reacts with C3 in reduced as well as nonreduced forms.

CULTURE MEDIUM RPMI 1640 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)<sub>3</sub>

APPLICATION

Method	Usability	Dilution guideline	References
ELISA	Yes	1:30,000	
Immunoblotting	Yes		
Immunohistochemistry	Not determined		

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

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.

**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.