

**Anti Complement component C3a/C3a (desArg) (human)
Mouse Monoclonal Antibody**

Subclass: IgG1/k

PRODUCT NO.	GAU 017-01
PRESENTATION	Preparation: Protein-A/G purified Content: Available in 200 µL and 1 mL, 1 mg/mL Solvent: 0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15 mM sodium azide Storage: In the dark at 4-8°C
ANTIGEN	Complement C3a is an anaphylatoxin of 77 amino acid residues released by the action of the C3 convertases on the N-terminal of the alpha chain of C3. It is rapidly inactivated by serum carboxypeptidase N which removes the C-terminal arginine residue generating C3a (desArg).
IMMUNOGEN	Human C3a
SPECIFICITY	Recognizes an epitope that is present on human C3, C3a and C3a (desArg). Does not cross-react with C4a or C5a.
EPI TOPE SPECIFICITY	GAU 017-01 recognizes different epitopes on the 9 kDa C3a than GAU 013-16.
REACTIVITY	GAU 017-01 can be used as a detection antibody in sandwich ELISA with GAU 013-16 capture antibody. Does not inhibit the biological activity of C3a

CULTURE MEDIUM RPMI 1640 with 10% fetal calf serum

FUSION PARTNER

IMMUNIZATION

BALB/c mice immunized i.p.

APPLICATION

Method	Usability	Dilution guideline	References
ELISA	Yes		
Immunoblotting	Yes		
Immunohistochemistry	Not determined		

REFERENCES

1. Oppermann M, Kurts C, Zierz R, Quintin E, Weber MH, Gotze O (1991) Elevated plasma levels of the immunosuppressive complement fragment Ba in renal failure. *Kidney Int.* 40:939-947.
2. Oppermann M, Höpken U, Götze O (1992) Assessment of complement activation in vivo. *Imm. pharm* 24:119-134.
3. Oppermann M, Haubitz M, Quintin E, Götze O (1988) Complement activation in patients with renal failure as detected through the quantitation of fragments of the complement proteins C3, C5, and Factor B. *Klin Wochenschr* 66:857-864.
4. Nezlín R, Freywald A, Oppermann M (1993) Proteins separated from human IgG molecules. *Mol. Immunol.* 30:935-940.
5. Ammon HPT, Ege W, Oppermann M, Göpel W, Eisele S (1995) Improvement in the long-term stability of an amperometric glucose sensor system by introducing a cellulose membrane of bacterial origin. *Anal. chem.* 67:466-471.
6. Lhotta K, Würzner R, Kronenberg F, Oppermann M, König P (1998) Rapid activation of the complement system by cuprophane depends on complement component C4. *Kidney Int.* 53:1044-1051.

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.