

**Anti Complement factor D (human)
Mouse monoclonal antibody**

Subclass: IgG2a/k

PRODUCT NO. **GAU 010-04**

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 factor D is a serine protease of the alternative pathway of complement activation. The protein is a single chain polypeptide with a molecular mass of 25 kDa. Factor D cleaves factor B bound to C3b, generating the alternative pathway C3 convertase C3bBb and releasing the Ba fragment.

IMMUNOGEN

Human Factor D (1)

SPECIFICITY

GAU 010-04 is specific for complement factor D in human serum and plasma (1).

EPITOPE SPECIFICITY

Epitope specificity differs from that of GAU 008-01 (1).

REACTIVITY

GAU 010-04 can be used as a capture antibody in sandwich ELISA with GAU 008-01 as detection antibody (1). GAU 010-04 can be used for Western blotting following SDS-PAGE under non-reducing conditions (2).

CULTURE MEDIUM

RPMI 1640 with 10% fetal calf serum

FUSION PARTNER

X63-Ag8.653.

IMMUNIZATION

BALB/c mice immunized i.p.

APPLICATION

Method	Usability	Dilution guideline	References
ELISA	Yes	1:250	1
Immunoblotting	Yes		2
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. Oppermann M, Baumgarten H, Brandt E, Gottsleben W, Kurts C, Gotze O (1990) Quantitation of components of the alternative pathway of complement (APC) by enzyme-linked immunosorbent assays. *J Immunol Methods* 133:181-190.
2. Oppermann M, Kurts C, Zierz R, Quentin E, Weber MH, Gotze O (1991) Elevated plasma levels of the immunosuppressive complement fragment Ba in renal failure. *Kidney Int.* 40:939-947.
3. Oppermann M, Höpken U, Götze O (1992) Assessment of complement activation in vivo. *Imm. pharm* 24:119-134.

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.