

**Anti-Gc-globulin (human)  
Mouse monoclonal antibody**

Subclass: IgG2b/k

PRODUCT NO.

**HYB 249-05**

Clone: 19E8

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

Gc-globulin is a plasma protein produced in the liver. Amongst its ligands are vitamin D, thus Gc-globulin is also called vitamin D-binding protein. Gc-globulin is furthermore part of the actin scavenging system, binding and removing monomeric actin from the blood stream. The molecular mass of Gc-globulin is approximately 50 kDa. The concentration of Gc-globulin in human plasma is app. 400 µg/ml (1).

IMMUNOGEN

Gc-globulin isolated from human plasma adsorbed onto aluminum hydroxide gel

SPECIFICITY

HYB 249-05 is specific for human Gc-globulin

EPITOPE SPECIFICITY

Epitope differs from that of HYB 249-01, HYB 249-02 and HYB 249-10.

REACTIVITY

HYB 249-05 reacts strongly with Gc-globulin. Two separate sandwich ELISA setups can be performed. In order to measure actin-free Gc-globulin a combination of HYB 249-05 as capture antibody and HYB 249-01B as biotinylated detection antibody can be used, while total Gc-globulin can be measured with a combination of HYB 249-05 as capture antibody and HYB 249-02B as biotinylated detection antibody. A strong reaction is also seen when tested in sandwich ELISA in combination with a polyclonal antibody against Gc-globulin (e.g. DAKO A0021).

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	
Immunoblotting	Not determined	
Immunohistochemistry	Not determined	

REFERENCES

1. Masuda S, Okano T, Osawa K, Shinjo M, Suematsu T, Kobayashi T (1989) Concentrations of vitamin D-binding protein and vitamin D metabolites in plasma of patients with liver cirrhosis. J Nutr Sci Vitaminol 35:225-34.

**CONDITIONS**

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