

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

Subclass: IgG<sub>1</sub>/k

PRODUCT NO.

**HYB 249-02**

Clone: 5E8

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 249-02 is specific for human Gc-globulin

EPI TOPE SPECIFICITY

Epitope specificity differs from that of HYB 249-01, HYB 249-05 and HYB 249-10.

REACTIVITY

HYB 249-02 reacts strongly with Gc-globulin. In order to measure total Gc-globulin a combination of HYB 249-05 as capture antibody and HYB 249-02B as biotinylated detection antibody can be used. A strong reaction is also seen in ELISA with Gc-globulin coated directly onto the microtiter well and when tested in sandwich ELISA in combination with a polyclonal antibody against Gc-globulin (e.g. DAKO A0021).

In Western blotting after SDS-PAGE, HYB 249-02 reacts with Gc-globulin in both reduced as well as 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            |            |
| Immunoblotting       | Yes            |            |
| 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**

Unless otherwise marked, all products are for research use only. Not for use in diagnostic procedures. Not for use in human therapeutic applications. For in vitro use or further manufacture only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The foregoing is in lieu of all warranties, expressed or implied, including implied warranties of merchantability and fitness for a particular purpose. In no event shall BioPorto Diagnostics A/S be responsible for loss of profits or indirect consequential losses resulting from use of its products.