

**Anti- β_2 -Microglobulin (human)
 Mouse monoclonal antibody**

Subclass: IgG1/k

PRODUCT NO.

HYB 290-03

Clone: 12B2

PRESENTATION

Preparation: Protein-A/G purified

Content: Available in 200 μ L 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

 β_2 -microglobulin (β_2 M) is a 12 kDa nonpolymorphic Ig like protein. It is a non-membrane-anchored glycoprotein and is noncovalently associated with 39-44 kDa polymorphic heavy chains of MHC class I molecules to form HLA class I antigen complex. In association with HLA class I, β_2 M is expressed on all leukocytes, platelets, endothelial cells, and epithelial cells.

IMMUNOGEN

 β_2 M isolated from human plasma adsorbed onto aluminum hydroxide gel

SPECIFICITY

HYB 290-03 binds to human β_2 M

EPI TOPE SPECIFICITY

Not determined

REACTIVITY

Suitable for immunoaffinity purification of β_2 M (1). A strong reaction is seen with HYB 290-03 when tested in sandwich ELISA in combination with a polyclonal antibody against β_2 M.

CULTURE MEDIUM

RPMI 1640 with 10% fetal calf serum

FUSION PARTNER

X63-Ag8.653

IMMUNIZATION

Female BALB/c mice immunized by intraperitoneal injection

APPLICATION

Method	Usability	References
ELISA	Yes	
Immunoblotting	Not determined	
Immunohistochemistry	Not determined	

REFERENCES

1. Sen JW, Bergen HR, III, Heegaard NH (2003) On-line immunoaffinity-liquid chromatography-mass spectrometry for identification of amyloid disease markers in biological fluids. *Anal Chem* 75:1196-1202.

CONDITIONS

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