

**Anti- $\beta$ -2 microglobulin (human,  $\beta_2$ M)  
 Mouse monoclonal antibody**

Subclass: IgG1/k

PRODUCT NO.

**HYB 290-03**

Clone: 12B2

PRESENTATION

Preparation: Protein-A/G purified

 Content: Available in 200  $\mu$ L and 1 mL volumes, 1 mg/mL

Solvent: 0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide

Storage: In the dark at 4-8°C

ANTIGEN

$\beta$ -2 microglobulin ( $\beta_2$ 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,  $\beta_2$ M is expressed on all leukocytes, platelets, endothelial cells, and epithelial cells.

IMMUNOGEN

 $\beta_2$ M isolated from human plasma adsorbed onto aluminum hydroxide gel

SPECIFICITY

 HYB 290-03 binds to human  $\beta_2$ M

EPI TOPE SPECIFICITY

Not determined

REACTIVITY

Suitable for immunoaffinity purification of  $\beta_2$ M (1). A strong reaction is seen with HYB 290-03 when tested in sandwich ELISA in combination with a polyclonal antibody against  $\beta_2$ 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	Dilution guideline	References
ELISA	Yes	1/30,000	
Immunoblotting	Not determined		
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. 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**

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.