

**Anti Biotin  
Mouse monoclonal antibody**Subclass: IgG<sub>2a</sub>/k**HYB 212-01**

PRODUCT NO.

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 15mM sodium azide  
 Storage: In the dark at 4-8°C

ANTIGEN

Biotin is a natural occurring vitamin also called vitamin B4. Biotin is required as prosthetic group of enzymes involved in incorporation of carbon dioxide into organic compounds. Biotin has a MW of 244 Da (1).

IMMUNOGEN

Biotinylated denatured ovalbumin

SPECIFICITY

HYB 212-01 is specific for biotin

EPI TOPE SPECIFICITY

Not determined

REACTIVITY

HYB 212-01 reacts strongly with biotin. Strong reaction is seen in ELISA with biotin/OA directly coated onto the microtiter well, also when tested in sandwich ELISA in combination with streptavidin. In Western blotting after SDS-PAGE, HYB 212-01 reacts with biotinylated proteins in both reduced and non-reduced forms.

CULTURE MEDIUM

RPMI 1640 with 10% fetal calf serum

FUSION PARTNER

X63-Ag8.653.

IMMUNIZATION

Female CF1 x BALB/c mice, immunized i.p. with immunogen adsorbed onto Al(OH)<sub>3</sub>

APPLICATION

Method	Usability	Dilution guideline	References
ELISA	Yes	1:40,000	
Immunoblotting	Yes		
Immunohistochemistry	Not determined		

The dilution guideline for ELISA is based on use as detection antibody for antigen (biotinylated ovalbumin) coated at 0.1-1 µg/ml. Users should determine the optimal dilutions for their own purposes.

REFERENCES

1. Scott T &amp; Eagleson M (1988) Concise Encyclopedia Biochemistry: Walter de Gruyter, New York.

**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.