ANTIBODYSHOP®

PRODUCT SPECIFICATION

Anti Biotin
Mouse monoclonal antibody

Subclass: IgG_{2a}/k

PRODUCT NO. **HYB 212-01**

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 4-8ºC

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

EPITOPE 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)3

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 & Eagleson M (1988) Concise Encyclopedia Biochemistry: Walter de Gruyter, New York.