ANTIBODYSHOP®

PRODUCT SPECIFICATION

Anti Immunoglobulin heavy chain (chicken, IgY) mouse monoclonal antibody

Subclass: IgG_{2b}/κ

PRODUCT NO. **HYB 208-03**

PRESENTATION

Preparation:	Protein-A 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
Storage:	In the dark at 4-8ºC

ANTIGEN

Secreted immunoglobulins (Ig) have two separable functions: one is to bind specifically to pathogenic molecules, the other is to recruit cells and molecules to destroy the opsonized pathogen. IgG in chicken (also called IgY) has a tetrameric structure consisting of two identical light chains (M_r = 24 kDa) and two identical heavy chains (M_r = 73 kDa).

IMMUNOGEN

Immunoglobulin isolated from chicken serum

SPECIFICITY

HYB 208-03 is specific for chicken Ig

EPITOPE SPECIFICITY

REACTIVITY

HYB 208-03 reacts strongly with chicken Ig. Strong reaction is seen in ELISA with chicken Ig directly coated onto the microtiterwell and when tested in sandwich ELISA in combination with a polyclonal antibody against chicken Ig (eg. rabbit anti chicken IgG from Sigma). In Western blotting after SDS-PAGE, HYB 208-03 reacts with chicken Ig heavy chain in both reduced and non-reduced forms.

CULTURE MEDIUM

Dulbecco's modified Eagle's medium with 10% fetal calf serum

FUSION PARTNER

X63-Ag8.653.

IMMUNIZATION

Female CF1 x Balb/c mice, immunized intraperitonelly with antigen adsorbed onto $Al(OH)_3$.

APPLICATION

Method	Usability	Dilution guideline	References
ELISA	Yes	1:15,000	
Immunoblotting	Yes		
Immunohistochemistry	Not determined		

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

REFERENCES

1. Leslie GA, Clem LW (1969) Phylogen of immunoglobulin structure and function. 3. Immunoglobulins of the chicken. J Exp Med 130:1337-1352.
2. Warr GW, Magor KE, Higgins DA (1995) IgY: Clues to the origins of modern antibodies. Immunol Today 16:392-398.

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.