

**Anti-Ovalbumin (chicken, denatured)
Mouse monoclonal antibody**

Subclass: IgG1/k

PRODUCT NO. **HYB 094-06**

PRESENTATION
 Preparation: Protein-A purified
 Content: Available in 200 µL 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
 Ovalbumin is the main protein found in egg white, making up 60-65% of the total protein. Native chicken ovalbumin is a globular monomer with a molecular mass of 45 kDa (1). It is structurally related to both serpins and lipocalins.

IMMUNOGEN
 Purified chicken ovalbumin was treated with formaldehyde and lysine for 2 weeks at 35°C and then autoclaved for 1 h at 110°C (2) before being adsorbed onto aluminum hydroxide gel.

SPECIFICITY
 HYB 094-06 reacts with denatured ovalbumin. Cross-reactivity with ovalbumins from other avian species has not been tested.

EPI TOPE SPECIFICITY
 Epitope specificity differs from that of HYB 094-05 and HYB 094-07, as indicated by lack of mutual inhibition of antigen binding.

REACTIVITY
 HYB 094-06 reacts with chicken ovalbumin in denatured or modified forms (surface-adsorbed, heat-denatured or reduced), including native chicken ovalbumin coated directly onto the microtiter well (3). In dot-blotting, HYB 094-06 reacts with both native and denatured ovalbumin adsorbed onto nitrocellulose. In Western blotting after SDS-PAGE, HYB 094-06 reacts with ovalbumin in both reduced and unreduced forms.

CULTURE MEDIUM
 RPMI 1640 with 10% fetal calf serum

FUSION PARTNER
 X63-Ag8.653

IMMUNIZATION
 Female BALB/c mice immunized by intraperitoneal injection

Method	Usability	Dilution guideline	References
ELISA	Yes	1/6500	
Immunoblotting	Yes	1/2000	
Immunohistochemistry	Not determined		

The dilution guideline for ELISA is based on use as detection antibody for native ovalbumin coated at 10 µg/mL. Users should determine the optimal dilutions for their own purposes.

REFERENCES
 1. Nisbet AD, Saundry RH, Moir AJ, Fothergill LA, Fothergill JE (1981) The complete amino acid sequence of hen ovalbumin. *Eur J Biochem* 115:335-345.
 2. Koch C, Jensen SS, Oster A, Houen G (1996) A comparison of the immunogenicity of the native and denatured forms of a protein. *APMIS* 104:115-125.
 3. Houen G, Koch C (1997) A non-denaturing enzyme linked immunosorbent assay with protein preadsorbed onto aluminum hydroxide. *J Immunol Methods* 200:99-105.

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.