

Monoclonal Anti-Chicken IgG Light chains
Clone CH-31
Mouse Ascites FluidProduct No. **C7910**

Monoclonal Anti-Chicken IgG (mouse IgG1 isotype) is derived from the hybridoma produced by the fusion of mouse myeloma cells and splenocytes from an immunized BALB/c mouse. Purified Chicken IgG was used as the immunogen. The product reacts in ELISA with chicken IgG from serum or extracted from chicken egg yolk. The isotype is determined using Sigma ImmunoType™ Kit (Sigma Stock No. ISO-1) and by a double diffusion immunoassay using Mouse Monoclonal Antibody Isotyping Reagents (Sigma Stock No. ISO-2). The product is provided as ascites fluid with 0.1% sodium azide (see MSDS)* as a preservative.

Specificity

In studies done on immunoblots containing intact chicken IgG from normal chicken serum and separated heavy and light chains after SDS treatment and reduction, Monoclonal Anti-Chicken IgG reacts with an epitope on the lambda light chains. The product recognizes the light chains bound to the chicken IgG and separated after denaturation. Monoclonal Anti-Chicken IgG clone CH-31 is specific for chicken IgG from serum and egg yolk. The product crossreacts with turkey immunoglobulins. It is non-reactive with normal goat, bovine, rabbit, porcine and human serum.

Uses

Monoclonal Anti-Chicken IgG may be used for detection and localization of chicken serum or egg yolk IgG using a variety of immunological techniques, including immunoblotting and ELISA. This reagent may serve as a highly specific instrument in poultry research and diagnostics as well as in the field of plant virology which frequently uses the chicken as a host for antibody

production. Since this clone specifically recognizes an epitope on the light chains, this reagent may be applied also for the detection of IgM and IgA. Monoclonal Anti-Chicken IgG may serve as a specific instrument in studies of the immunoglobulin genes of the chicken light and heavy chains.

Working Dilution

A minimum working dilution of 1:3,000 is determined in an ELISA using purified chicken IgG at 10 µg/ml as the coating protein.

In order to obtain best results, it is recommended that each individual user determine their working dilution by titration assay.

Storage

For continuous use, store at 2-8°C for a maximum of one month. For extended storage, the solution may be frozen in working aliquots. Repeated freezing and thawing is **not** recommended. Storage in "frost-free" freezers is **not** recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use.

*Due to the sodium azide content a material safety data sheet (MSDS) for this product has been sent to the attention of the safety officer of your institution. Consult the MSDS for information regarding hazards and safe handling practices.

12/97

Sigma brand products are sold through Sigma-Aldrich, Inc.

Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications. Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply. Please see reverse side of the invoice or packing slip.