

Product Information

MONOCLONAL ANTI-CHICKEN LIGHT CHAINS FITC CONJUGATE CLONE CH-31 Immunoglobulin Fraction of Mouse Ascites Fluid

Product No. **F 4766**

Product Description

Monoclonal Anti-Chicken Light Chains (mouse IgG1 isotype) is derived from the hybridoma produced by the fusion of mouse myeloma cells and splenocytes from an immunized mouse. Purified chicken IgG was used as the immunogen. The isotype is determined using Sigma ImmunoType™ Kit (Product Code ISO-1) and by a double diffusion immunoassay using Mouse Monoclonal Antibody Isotyping Reagents (Product Code ISO-2). The immunoglobulin fraction of ascites fluid is conjugated to fluorescein isothiocyanate (FITC) and then further purified to remove unconjugated FITC. The conjugate is provided as a liquid in 0.01 M phosphate buffer, pH 8.0, containing 1% BSA and 0.01% thimerosal as a preservative.

Specificity

Monoclonal Anti-Chicken Light Chains recognizes an epitope located on the light chains of chicken IgG, both free and bound light chains can be localized. The antibody shows no cross-reactivity with IgG from rabbit, guinea pig, mouse, rat or human serum. Cross-reactivity is observed with normal turkey serum.

Working Dilutions

1. In a fluorescent dot immunobinding assay (F-DIBA), a minimum conjugate dilution of 1:8 is determined using a 4-8 µg dot of chicken IgG.
2. In an indirect fluorescent dot immunobinding assay, a minimum conjugate dilution of 1:16 is determined using a 4-8 µg dot of human IgG and chicken anti-human IgG as the primary antibody.
3. In indirect immunohistology, a minimum conjugate dilution of 75 µg/ml is determined using formalin-fixed, paraffin-embedded sections of human tonsils using a primary antibody produced in chickens.

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

F/P Molar Ratio: 3 - 5

Protein Concentration = 3-6 mg/ml by absorbance at 280 nm.

Uses

FITC Monoclonal Anti-Chicken Light Chains may be used for the detection and localization of chicken serum or yolk IgG using a variety of immunological techniques. This antibody may serve as a highly specific instrument in poultry research and diagnostics as well as in the field of plant viruses which frequently uses the chicken as a host for antibody production. This clone specifically recognizes an epitope on the light chains and can thus be used for the detection of chicken IgA, and IgM. FITC Monoclonal Anti-Chicken Light Chains may serve as a specific instrument in studies of the immunoglobulin genes of chicken light and heavy chains.

Storage and Stability

For continuous use, store at 2-8 °C. For extended storage, solution may be frozen in working aliquots. Repeated freezing and thawing is not recommended. If slight turbidity occurs upon prolonged storage, clarify 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.