

Product No. F-5517
Lot 059F48281

Monoclonal Anti-Dog IgG
FITC Conjugate
Immunoglobulin Fraction of Mouse Ascites Fluid
Clone No. DG-22

Monoclonal Anti-Dog IgG (mouse IgG1 isotype) is derived from the hybridoma produced the fusion of mouse myeloma cells and splenocytes of an immunized mouse. Purified dog IgG was used as the immunogen. 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 immunoglobulin fraction of the ascites fluid is conjugated to fluorescein isothiocyanate (FITC) and then further purified to remove unconjugated FITC. The conjugate is provided as a solution in 0.01 M phosphate buffered saline, pH 8.0, with 1% BSA and 0.01% thimerosal as a preservative.

Specificity

Monoclonal Anti-Dog IgG recognizes an epitope located on the heavy chain of dog IgG in an immunoblot of denatured, non-reduced dog IgG. No cross-reaction is observed with human serum or tissue components, or with IgG derived from the following species: human, guinea pig, bovine, goat, sheep, horse, pig or cat.

Working Dilution

A working dilution of 1:64 was determined by Fluorescent Dot Immunobinding (F-DIBA) using a 4-8 µg dot of dog IgG.

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

F/P Molar Ratio: 3.6

A₂₈₀/A₄₉₅: 1.34

Protein Concentration: 3.0 mg/ml by absorbance at 280 nm.

Uses

FITC Monoclonal Anti-Dog IgG which is devoid of any binding capacity to human and many other species immunoglobulins may serve as an essential tool in many applications, especially in the identification of dog IgG or as a monoclonal anti-immunoglobulin secondary reagent.

Storage

For continuous use, store at 0-5°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. Sigma warrants that its products conform to the information contained in this and other Sigma publications. Purchaser must determine the suitability of the products for its particular use. See reverse side of invoice or packing slip for additional terms and conditions. **150105**