

**Product No. B-2268**  
**Monoclonal Anti-Cat IgG**  
**Biotin Conjugate**  
Immunoglobulin Fraction of Mouse Ascites Fluid  
Clone CT-21

**Lot 024H4840**

Monoclonal Anti-Cat IgG (mouse IgG2a isotype) is derived from the hybridoma produced by the fusion of mouse myeloma cells and splenocytes from an immunized mouse. Purified cat IgG was used as the immunogen. The isotype is determined by a double diffusion assay using immunoglobulin specific antisera. The immunoglobulin fraction of the ascites fluid containing anti-cat IgG is conjugated to epsilon amino caproyl biotin. This covalent coupling of biotin to the immunoglobulin allows for the binding of Avidin, ExtrAvidin<sup>®</sup> or Streptavidin bearing a variety of different labels. The conjugate is provided a liquid in 0.01 M phosphate buffered saline, pH 7.4, with 1% BSA and 0.1% sodium azide (see MSDS)\* as a preservative.

**Specificity**

Monoclonal anti-Cat IgG recognizes an epitope on the heavy chain of cat IgG. In an ELISA procedure, the product shows minimal cross reaction with human serum or tissue preparations. Minimal cross reaction is also observed with IgG from the following species: bovine, dog, goat, human, pig, rabbit, rat and sheep.

**Working Dilution**

A working dilution of 1:30,000 was determined by an ELISA using cat IgG at 1  $\mu$ g/ml (freshly prepared) as

the coat, with ExtrAvidin<sup>®</sup>-Peroxidase (Sigma Product No. E-2886) and *o*-Phenylenediamine Dihydrochloride tablets (OPD, Sigma Product No. P-8787).

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

**Uses**

Biotin Monoclonal Anti-Cat IgG which is devoid of any binding capacity to human and many other species may serve as an essential tool in many applications, especially in the identification of cat IgG and also 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.

\*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.

SIGMA warrants that its products conform to the information contained in this and other Sigma publications. Purchaser must determine suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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