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ProductInformation

MONOCLONAL ANTI-FITC(Fluorescein Isothiocyanate)
Clone FL-D6
Mouse Ascites Fluid

Product No. **F 5636**

Product Description

Monoclonal Anti-FITC (mouse IgG1 isotype) is derived from the hybridoma produced by the fusion of mouse myeloma cells and splenocytes from an immunized mouse. A FITC-BSA conjugate 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).

Monoclonal Anti-FITC will react with either free or conjugated FITC. The antibody does not react with bound or free TRITC (tetramethylrhodamine isothiocyanate).

Monoclonal Anti-FITC may be used for the detection of FITC and as a universal indicator reagent for bridging FITC with other immunochemical reagents. It may be used in ELISA, competitive ELISA and immunofluorescent techniques. A FITC Anti-FITC system has been used in the amplification of signal in immunofluorescent detection and as a means of separating bound from free tracer by affinity chromatography. The antibody can also be used to isolate cells that have an FITC-labeled ligand on their surface.

FITC (fluorescein isothiocyanate) is a fluorochrome dye that absorbs ultraviolet or blue light causing molecules to become excited and emit a visible yellow-green light. This emission ceases upon removal of the light causing the excitation. Fluorochrome labeling provides rapid, accurate localization of antigen-antibody interaction when one of the reactants is part of a cell, tissue or other biological structure. FITC is a commonly used marker for antibodies in immunofluorescent techniques because the conjugation of FITC to proteins is relatively easy and generally does not destroy the biological activity of the labeled protein. FITC is widely used as a hapten to label different proteins. Antibodies to FITC are used to identify FITC labeled proteins and as models to study the mechanism of antibody response to a well defined hapten.

Reagents

The product is provided as ascites fluid with 0.1% sodium azide as a preservative.

Precautions

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.

Product Profile

A minimum working dilution of 1:2,500 was determined by an ELISA using ExtrAvidin®-FITC (Product No. E 2761) at 5 µg/ml to coat microtiter plates.

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

Storage

For continuous use, store at 2-8 °C for up to 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.

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