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Product Information

Monoclonal Anti-Peroxidase Clone P6-38 Mouse Ascites Fluid

Product No. P2419

Product Description

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

Mouse monoclonal antibodies are of increasing importance for the immunochemical detection of antigens in histological and cytological preparations and for the detection and quantitation of solid-phase antigens in techniques such as ELISA and immunoblotting. The exquisite specificity and the absence of background staining of monoclonal antibodies are however, only fully exploited if optimal methods are used to detect their binding. The binding of monoclonal antibodies is usually monitored by a second antibody directed to mouse immunoglobulin or by the conjugation of the antibody to a label such as enzyme or fluorochrome.

An alternative to the preparation of covalent antibody/enzyme conjugates is to use an antibody bridge between a specific antibody and an anti-enzyme antibody, the latter acting as an acceptor of the subsequently added enzyme. This method using peroxidase as the marker has been further simplified by previously preparing a peroxidase-anti-peroxidase (PAP) soluble complex. The use of monoclonal PAP complexes in the unlabeled antibody-enzyme method results in an intense signal with a very low background, while the problems inherent to the conjugation of antibodies are avoided.

Monoclonal Anti-Peroxidase may be used for the amplification of the signal obtained with primary mouse monoclonal antibodies used in various immunochemical techniques such as ELISA, immunohistochemistry and immunoblotting.

Reagents

The product is provided as ascites fluid with 15 mM 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

The minimum working dilution was determined to be 1:5,000 by indirect ELISA using a mouse monoclonal primary antibody, bridging antibody and purified horseradish peroxidase.

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

Storage

Store at 2-8 °C for up to one month.

For extended storage, 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 by centrifugation before use.

Pcs2/01

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