Description	**Biotin-conjugated purified monoclonal mouse antibody to fluorescein isothiocyanate isomer 1**
Product code	MA/FITC/Bio
Biological origin	Mouse, clone NI 239
Mouse isotype	IgG1κ
Physical form	Biotin conjugated purified mouse IgG1κ lyophilized from a solution in phosphate buffered saline (pH 7.2).
Immunogen	Highly purified fluorescein isothiocyanate isomer 1.
Identity & Specificity	The reactivity of the antiserum is directed to the FITC molecule as tested in direct binding enzyme immunoassay, ELISA and immunoblotting.
Cross-reactivity	This antiserum has not been tested for cross-reactivity with other fluorescent compounds.
Physicochemical characteristic	IgG concentration is 0.4 mg/ml. No foreign proteins added.
Intended use	To enhance the specific signal obtained with a monoclonal antibody or a polyclonal second antibody conjugated to FITC. The phenomenon of a weak reaction of a monoclonal antibody is e.g. well known in different analysis of vital peripheral blood mononuclear cells in suspensions by the expression of surface markers. A similar situation exists in solid phase assay systems (ELISA, blotting, DIBA) when used for the identification and /or quantitative determination of minute amounts of soluble specific antigens or antibodies. The sensitivity of the FITC hapten-anti-hapten system makes it a valuable alternative to the biotin-avidin system. The optimum working dilution is an assay-related characteristic and should always be determined by titration. For histochemical use optimum dilutions are mostly from 1:50 to 1:200; in ELISA from 1:500 upwards; in Western blotting from 1:1,000 upwards. These data should be interpreted as general recommendations only.
Handling	The lyophilized product is shipped at ambient temperature and may be stored at +4°C; prolonged storage at or below -20°C. Reconstitute the lyophilized ascites by adding 0.5 ml sterile distilled water. Dilutions may be prepared by adding phosphate buffered saline (PBS, pH 7.2). Avoid repeated thawing and freezing. If a slight precipitation occurs upon storage, this should be removed by centrifugation and will not affect the performance of the product. Diluted solutions should be stored at +4ºC, not refrozen, and preferably used the same day.
Packing	Vial with 0.5 ml lyophilized monoclonal conjugate.
Storage / shelf life	Lyophilized at +4ºC — at least 10 years reconstituted at or below -20°C — 3-5 years reconstituted at +4°C — 7 days
Caution	This immunoconjugate should be handled by qualified persons only and appropriate precautions should be taken in its handling and disposal, and of all associated materials. For *in vitro* research purposes only.

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