

Anti-Rat IgM (MARM-4)

Mouse Monoclonal Antibody

Cat. No.	Conjugate	Unit Size
MARM-4-P-0.1	purified	100µl
MARM-4-P-0.5	purified	500µl
MARM-4-P-1	purified	1ml
MARM-4-HRP-0.5	Peroxidase	500µl
MARM-4-HRP-1	Peroxidase	1ml
MARM-4-FITC-0.5	FITC	500µl
MARM-4-FITC-1	FITC	1ml
MARM-4-BIOT-0.5	Biotin	500µl
MARM-4-BIOT-1	Biotin	1ml

Product Information

Supplied as:	1 mg/ml affinity purified antibody prepared in PBS buffer, pH 7.6, with 0.09% sodium azide as preservative FITC and Biotin labelled antibodies are supplied in PBS buffer, pH 7.6, with 0.09% sodium azide and 50% glycerol.
Origin:	Hybridoma derived by hybridization of spleen cells from immunized mice with the Sp2/O mouse myeloma cell line.
Immunogen:	IgM (Polyclonal rat IgM, IR968) (1)
Clone:	MARM-4
Host / Isotype:	Mousekappa IgG1
Reactivity:	Rat mu heavy chain of immunoglobulin (determined by immunodot). MARM-4 and MARM-7 do not bind to the same epitope. MARM-4 and MARM-7 label the same percentage of IgM rat splenocytes by fluorocytometric analyses.
Cross-Reactivity:	MARM-4 doesn't bind to mouse Ig (every isotype) and rabbit IgG.
Avidity:	on rat IgM: $3.5 \times 10^9 \text{ M}^{-1}$
Applications:	<ul style="list-style-type: none"> - CAPTURE ELISA: GOOD BINDING ON PLASTICS - CAN BE LABELLED WITH TRITC - CANNOT BE USED FOR CELL COUNTING USING A DIRECT METHOD OF IMMUNOFLUORESCENCE - CAN BE USED AS SECOND ANTIBODY IN IMMUNOASSAYS - CAN BE USED IN IMMUNOAFFINITY CHROMATOGRAPHY for purification of rat IgM (solid Sepharose 4B CNBr act.) - CAN BE COATED ON NITROCELLULOSE (DOT-ELISPOT) - CAN BE USED ON CRYOSECTIONS (IMMUNOHISTOLOGY) AS FIRST ANTIBODY LABELLED WITH PEROXIDASE OR FITC
Storage and Stability:	<p>For longterm storage store product at -20°C.</p> <p>At 2-8°C the undiluted stock solution of the antibody is stable for a few weeks. Repeated freezing and thawing of unconjugated antibody should be avoided. It is recommended to aliquot unconjugated antibody before freezing. Labelled antibodies (Peroxidase, FITC, Biotin) contain 50% glycerol as antifreezing and remain liquid at -20°C. In this case aliquoting is not required.</p> <p>It's recommended to prepare a working dilution fresh prior to use.</p> <p>Expiry information is given on the label and / or data sheet supplied upon delivery</p>

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Safety Information:

Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Purified, FITC, and Biotin labelled antibody contains 0.09% sodium azide (a poisonous and hazardous substance) as preservative. Although this concentration is not regarded as dangerous to health, appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. Peroxidase conjugate contains no hazardous constituents.

Note: This information sheet contains general product information only. For detailed lot specific information consult the label and data sheet supplied by the manufacturer upon delivery of the product.

References:

- (1) Bazin H., Beckers A. & Querinjean P. Three classes and four subclasses of rat immunoglobulins: IgM, IgA, IgE and IgG1, IgG2a, IgG2b, IgG2c. Eur. J. Immunology, 1974,4:44-48.
 - (2) Cormont F., Manouvriez P., De Clercq L. & Bazin H. The use of rat monoclonal antibodies to characterize, quantify and purify polyclonal or monoclonal mouse IgM. Meth. in Enzymology, 1986,121,622-631.
- Selected references of scientific publications in which MARM-4 MAb was used
- Platteau B. et al. Int. J. Radiat. Biol., 1989, 55:14
Soares M. et al. Transplantation Proceedings, 1992,24:451-452
Castedo M. et al. Int. Immunol. 1993, 5: 1569-1576
Soares M. et al. Transplantation 1993, 56: 1427-1433
Vanhove B., Bazin H. Immunology 1993, 79: 580-586
Latinne et al. Immunol. Rev. 1994, 141: 95-125
Reding et al. Transplant Immunol. 1994, 2: 231-237
Soares et al., Transplantation 1994, 57: 1003-1009
Soares et al., Xenotransplantation 1994, 1: 118-124
Soares et al. Transplant. Proc. 1994, 26: 1357-1359

For more information, see:

"Rat Hybridomas and Rat Monoclonal Antibodies". H. BAZIN (Ed.). CRC Press, Boca Raton, Florida, USA, 1990, 515 pages.

This product is for In Vitro experimental use only. Not for Therapeutic or Diagnostic use.

This product is warranted to perform in conformance with the product specifications provided by the manufacturer and to be free from defects in material and workmanship. Products are supplied for research use only. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated, this warranty is limited to the period of stability as indicated on the label and / or data sheet at the time of delivery of the product when the product is subjected to normal, proper and intended usage. The remedy for non-conforming products is limited to replacement of or refund for the non-conforming product(s). There is no obligation to replace products as the result of accident or inappropriate use, improper storage or handling of the products

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