

DESIGNATION OF CELL LINE AND PRODUCT: *LO-MM-9*

IMMUNOGEN :

SUBSTANCE NAME : purified IgM (Mouse polyclonal IgM) from BALB/c mice
GENUS SPECIES : Mus musculus - mouse

IMMUNOCYTE DONOR :

GENUS SPECIES : Rattus norvegicus - rat
STRAIN : LOU/C

IMMORTAL CELL PARTNER :

DESIGNATION : non secreting LOU/C rat IR983F fusion line (1)

HYBRIDOMA CELLS AND MONOCLONAL ANTIBODY

CLASS OF ANTIBODY PRODUCED : Rat Kappa IgG2a, allotype IgK-1a
NAME FOR CELL LINE : LO-MM-9 HYBRIDOMA
NAME FOR PRODUCT : LO-MM-9 MONO Ab
ICDB NUMBER : 3039019

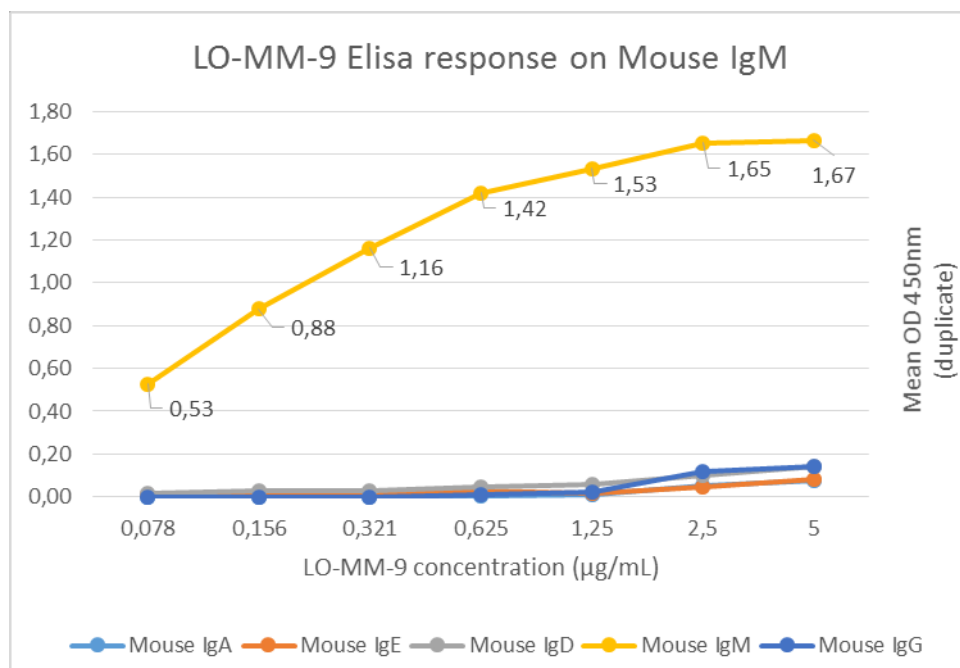
REACTIVITY:

Mu heavy chain of Mouse immunoglobulin (2) (determined by immunodot), positively tested on BALB/c and C57BL/6 mouse sera. It binds to an epitope in the C_μ3 domain.

CROSS-REACTIVITY:

Does not bind to human myeloma of IgM, IgG, IgA, IgD, IgE isotypes. Does not bind to chicken, rabbit, goat, sheep, bovine, horse, dog, swine, baboon IgG (ELISA test).

SPECIFICITY ON ELISA:



- Detection antibody : LO-MM-9 Pure
- Secondary antibody : MARK-3-HRP



AVIDITY:

On mouse IgM: $6.8 \times 10^8 \text{ M}^{-1}$ by BIACORE (Pharmacia)*

Cf. avidity sheet, for more details

APPLICATIONS : Cf REACTIVITY

- CAN BE LABELLED WITH IODINE (2), FITC and BIOTIN
- CANNOT BE LABELLED WITH PEROXIDASE (use LO-MM-8)
- CAPTURE ELISA: GOOD BINDING ON PLASTICS
- CAN BE USED AS SECOND ANTIBODY IN IMMUNOASSAYS
- CAN BE USED IN IMMUNOAFFINITY CHROMATOGRAPHY for purification of mouse IgM (Solid phase Sepharose 4B CNBr act.) - capacity: see data sheet.
- CAN BE COATED ON NITROCELLULOSE (DOT-ELISPOT)
- CAN BE USED ON CRYOSECTIONS (IMMUNOHISTOLOGY) AS FIRST ANTIBODY (purified) (3)

LYOPHILIZATION: Yes, but with partial denaturation.

FORMAT AVAILABLE:

- Azide Free
- Endotox Free
- Custom labeling available on the full catalog or on request (Phycoerythrin, HRP, FITC, Alexa Fluor, ...)
- In cocktail with another antibody

REFERENCES :

- (1) Bazin H. Prot. Biol. Fluids, 1982, Peeters E. ed., 29th colloquium 1981 Pergamon Press Oxford and N.Y. : 615-618
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- (5) Differential effects of injections of anti-mu and anti-delta monoclonal antibodies on B-cell populations in adult mice: regulation of xenoreactive natural antibody-producing cells. (In Transplantation on 15 December 1999 by Chentoufi, A. A., Nizet, Y., et al.)
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- (7) Resting B cells can act as antigen presenting cells in vivo and induce antibody responses. (In International Immunology on 1 January 1993 by Denis, O., Latinne, D., et al.)
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- (12) The use of rat monoclonal antibodies to characterize, quantify, and purify polyclonal or monoclonal mouse IgM. (In Methods in Enzymology on 1 January 1986 by Cormont, F., Manouvriez, P., et al.)
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- (15) Cormont F. et al. Meth. Enzymol., 1986, 121: 622-631
- (16) Denis O. et al. Int. Immunol., 1993, 5 (1): 71-78
- (17) Latinne D. et al. Immunol. Rev. 1994, 141: 95-125
- (18) Chentoufi A. et al. Transplantation, 1999, 68: 1728-1736.

For more information, see: Rat Hybridomas and Rat Monoclonal Antibodies. Bazin H. (Ed.), CRC Press, Boca Raton, Florida, USA, 1990, 515 pages.

FOR RESEARCH ONLY

* *Kindly determined by Th. Delaunay (INRA, FRANCE)*