

DESIGNATION OF CELL LINE AND PRODUCT : LO-MD-6

IMMUNOGEN :

SUBSTANCE NAME: IgD (MOUSE DELTA HEAVY CHAIN OF IMMUNOGLOBULIN) TEPC 1017, TEPC 1033 (1)
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 (2)

HYBRIDOMA CELLS AND MONOCLONAL ANTIBODY :

CLASS OF ANTIBODY PRODUCED : Rat kappa IgG2a, allotype IgK-1a
NAME FOR CELL LINE : LO-MD-6 HYBRIDOMA
NAME FOR PRODUCT : LO-MD-6 MONO Ab
ICDB NUMBER : 3046717

REACTIVITY:

Mouse delta heavy chain of immunoglobulin (determined by immunodot)

CROSS-REACTIVITY:

Does not bind to human IgG and IgM. Does not bind to chicken, rabbit, goat, sheep, bovine, horse, dog, swine, baboon IgG (ELISA test).

AVIDITY (3):

On Mouse IgD: $1.2 \times 10^9 \text{ M}^{-1}$ by BIACORE (Pharmacia)*.

APPLICATIONS : Cf REACTIVITY

- CAPTURE ELISA: GOOD BINDING ON PLASTICS
- CAN BE LABELLED WITH BIOTIN
- CAN BE LABELLED WITH PEROXIDASE AND FITC.
- CAN BE USED AS SECOND ANTIBODY IN IMMUNOASSAYS
- IMMUNOFFINITY CHROMATOGRAPHY for purification of mouse IgD (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 LABELLED WITH PEROXIDASE

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) Finkelman F.O., Kessler J.W., Mushinski J.F. and Potter M. IgD-secreting murine plasmacytomas: identification and partial characterization of two IgD myeloma proteins. J. Immunol. 1981, 126: 680.
 - (2) Bazin H. Production of rat monoclonal antibodies with the LOU rat non secreting IR983F myeloma cell line. Prot. Biol. Fluids 1982, Peeters E. ed., 29th Colloquium 1981, Pergamon Press, Oxford and N.Y., pp. 615- 618.
 - (3) Van Heymingen et al. J. Immunol. Methods 1983, 62: 147-153.
- Selected references of scientific publications in which LO-MD-6 MAb was used
Goroff D.K., Holmes, J.M., Bazin, H., Nisol, F., Finkelman, F.D. J. Immunol., 1991, 146 : 18-25 (in this paper, LO-MD-6 is named Hb□-6); Denis O., Latinne D., Nisol F., Bazin H. Int. Immunol., 1993, 5 (1): 71-78; Latinne D. et al. Immunol. Rev. 1994, 141: 95-125, Chentoufi A. et al. Transplantation, 1999, 68: 1728-1736.
- (4) B-Cell suppression in adult mice injected with anti-mu mAb. (In **Cellular Immunology** on 10 October 2000 by Chentoufi, A. A., Nizet, Y., et al..)



- (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.)
- (6) Depletion of IgM xenoreactive natural antibodies by injection of anti-mu monoclonal antibodies. (In **Immunological Reviews** on 1 October 1994 by Latinne, D., Soares, M., et al.)
- (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.)
- (8) Polyclonal activation of the murine immune system by an antibody to IgD. XI. Contribution of membrane IgD cross-linking to the generation of an in vivo polyclonal antibody response. (In **The Journal of Immunology** on 1 January 1991 by Goroff, D. K., Holmes, J. M., et al.)

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).*