DESIGNATION OF CELL LINE AND PRODUCT : *MARE-1*

IMMUNOGEN :

SUBSTANCE NAME : IgE (IR162, IR410) (1)
GENUS SPECIES : Rattus norvegicus - rat
STRAIN : LOU/C

IMMUNOCYTE DONOR :

GENUS SPECIES : Mus musculus - mouse
STRAIN : BALB/c

IMMORTAL CELL PARTNER :

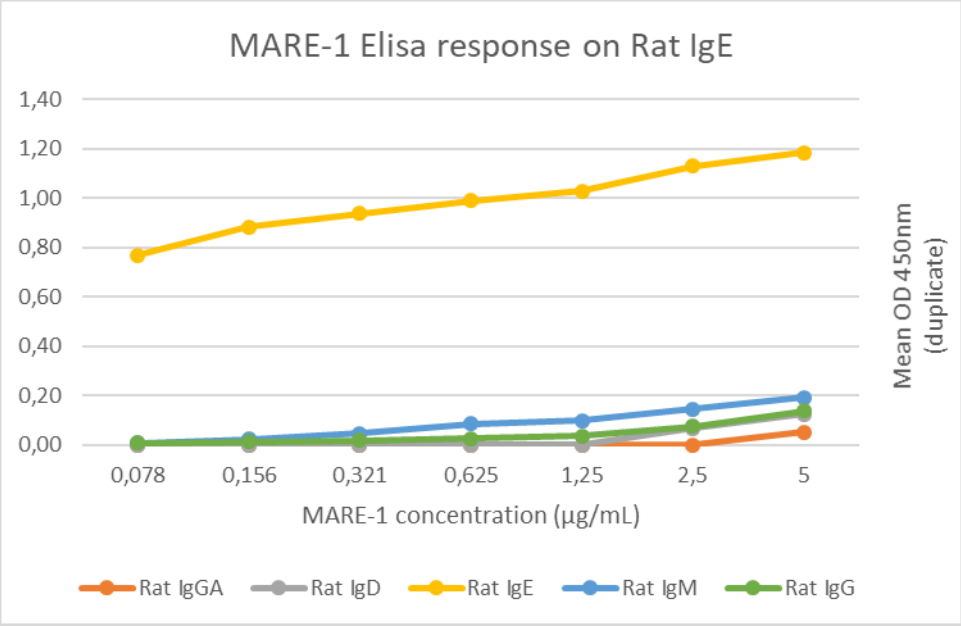
DESIGNATION : Sp2/O

HYBRIDOMA CELLS AND MONOCLONAL ANTIBODY :

CLASS OF ANTIBODY PRODUCED : Mouse kappa IgG1
NAME FOR CELL LINE : MARE-1 HYBRIDOMA
NAME FOR PRODUCT : MARE-1 MONO Ab
ICDB NUMBER : 3032636

REACTIVITY: Rat epsilon heavy chain of immunoglobulin (C epsilon 3) (4) (determined by immunodot)

SPECIFICITY ON ELISA:



- Detection antibody : MARE-1 Pure
- Secondary antibody : LO-MK-2-HRP

AVIDITY: On rat IgE: 4 x $10^{9}M^{-1}$ (*Cf. avidity sheet, for more details).*

APPLICATIONS : Cf REACTIVITY

- CAN BE USED AS SECOND ANTIBODY IN IMMUNOASSAYS (2,3,4,5,6)
- CAN BE LABELLED WITH IODINE (2,3), BIOTIN, FITC AND PEROXIDASE
- CAN USED FOR CAPTURE ELISA: GOOD BINDING ON PLASTICS
- CAN BE USED IN WESTERN BLOT ANALYSIS: binds to rat IgE in denaturated and non denaturated conditions.
- SUITABLE FOR DEGRANULATION OF RAT MAST CELLS (positive reaction in PCA)
- CAN BE USED IN IMMUNOAFFINITY CHROMATOGRAPHY for purification of Rat IgE (Solid phase Sepharose 4B CNBr act.)
- CAN BE COATED ON NITROCELLULOSE (DOT-ELISPOT)
- CAN BE USED ON CRYOSECTIONS (IMMUNOHISTOLOGY) AS FIRST ANTIBODY LABELLED WITH FITC

LYOPHILIZATION: Yes, with a possible low 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., Querinjean P., Beckers A., Heremans J.F. & Dessy F.Transplantable immunoglobulin-secreting tumours in rats.IV.Sixty-three IgE-secreting immunocytoma tumours. Immunology 1974,26 :713-723
(2) Manouvriez P., Ravoet A.M. & Bazin H. Fc epsilon receptors on rat B- lymphocytes : specificity and binding kinetics. Mol. Immunology 1985, 22 :1201-1208
(3) Manouvriez P. & Bazin H. In vivo kinetics and nature of rat IgE- bearing lymphocytes after IgE stimulation. J. Immunol. 1984, 133 : 3274- 3281
(4) Rousseaux-Prevost R., Rousseaux J., Bazin H. Studies of the IgE binding sites to rat mast cell receptor with proteolytic fragments and with a monoclonal antibody directed against epsilon heavy chain: evidence that the combining sites are located in the C epsilon 3 domain. Molecular Immunology 1987, 24, 187-196
(5) Pluschke G. and Bordmann G. Isolation of rat immunoglobulin class switches variants of rat-mouse hybridomas by enzyme-linked immunosorbent assay and sequential sublining. Eur. J. Immunol. 1987, 17, 413-416 ;
(6) Manouvriez P., Lefebvre M., Genart C., Cormont F. & Bazin H. Accurate determination of rat immunoglobulin isotype content in culture supernatants or media by Elisa with mouse monoclonal antibodies. Immunobiology 1986, 173, 307-308.
(7) Manouvriez P.et al. Ann. Inst. Pasteur, 1985, 136C :187-193
(8) Rousseaux-Prevost R., et al. Mol. Immunol., 1987, 24 :187-196
(9) Vanhove B., Bazin H. Mol. Immunology, 1992, 29 :1-8
(10) Vanhove B., Bazin H. Immunology 1993, 79 : 580-586
(11) Yamada M., et al. Immunology 1993, 78 : 298-302
(12) Soares et al., Transplant. Proc. 1995, 27 : 282-285
(13) Lima M.C. et al. J. Leukoc. Biol. 1997, 61 : 286-292.
(14) Studies on the mechanisms involved in antigen-evoked pleural inflammation in rats : contribution of IgE and complement. (In Journal of Leukocyte Biology on 1 March 1997 by Lima, M. C., Prouvost-Danon, A., et al.)
(15) Characterisation of rat anti-guinea pig circulating xenoreactive natural antibodies and secreting cells. (In Transplantation Proceedings on 1 February 1995 by Soares, M., Havaux, X., et al.)
(16) Differentiation of membrane IgE+ rat B cells into IgE-secreting cells. (In Immunology on 1 August 1993 by Vanhove, B. & Bazin, H.)
(17) IgE and IgG2a antibody responses are induced by different antigen groups of the nematode Nippostrongylus brasiliensis in rats. (In Immunology on 1 February 1993 by Yamada, M., Nakazawa, M., et al.)
(18) IgG2b or IgE molecules can be co-expressed with those of the IgM and IgD isotypes of the membrane of normal rat B cells. (In Molecular Immunology on 1 January 1992 by Vanhove, B. & Bazin, H.)
(19) Studies of the IgE binding sites to rat mast cell receptor with proteolytic fragments and with a monoclonal antibody directed against epsilon heavy chain: evidence that the combining sites are located in the C epsilon 3 domain. (In Molecular Immunology on 1 February 1987 by Rousseaux-Prévost, R., Rousseaux, J., et al.)
(20) Nippostrongylus brasiliensis infection can induce IgE production in rnu/rnu rats. (In Annales De L'Institut Pasteur. Immunology on 1 March 1985 by Manouvriez, P., Cormont, F., et al.)

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

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