

DESIGNATION OF CELL LINE AND PRODUCT: LO-MK-2

IMMUNOGEN :

SUBSTANCE NAME : purified IgG kappa 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 IgG1, allotype IgK-1a
NAME FOR CELL LINE : LO-MK-2 HYBRIDOMA
NAME FOR PRODUCT : LO-MK-2 MONO Ab
ICDB NUMBER : 3000335

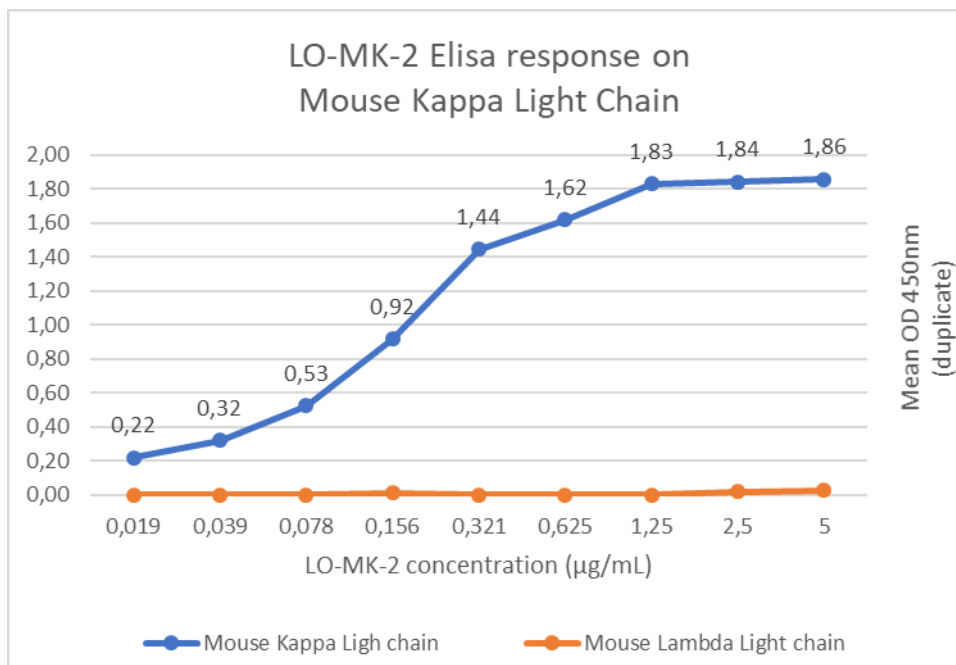
REACTIVITY:

Kappa Light Chain of Mouse Immunoglobulin (determined by immunodot), positively tested on BALB/c and C57BL/6 mouse sera. LO-MK-1 and LO-MK-2 do not bind to the same epitope.

CROSS-REACTIVITY:

Does not cross-react with chicken, rabbit, goat, horse and baboon human IgG and with human IgM. Cross-react with dog, sheep, swine and bovine IgG (ELISA test), probably by their kappa light chain, but not tested.

SPECIFICITY ON ELISA:



- Detection antibody : LO-MK-2 Pure
- Secondary antibody : MARK-3-HRP



AVIDITY:

- on mouse kappa IgM: $2 \times 10^8 \text{ M}^{-1}$
- on mouse kappa IgG1: $1 \times 10^9 \text{ M}^{-1}$
- on mouse kappa IgG2a: $3 \times 10^9 \text{ M}^{-1}$
- on mouse kappa IgG2b: $2 \times 10^9 \text{ M}^{-1}$
- on mouse kappa IgG3: $2 \times 10^9 \text{ M}^{-1}$

APPLICATIONS : Cf REACTIVITY

- LABELLED SECOND ANTIBODY, but less efficient than LO-MK-1
- CAN BE LABELLED WITH PEROXIDASE, FITC AND BIOTIN
- CAPTURE ELISA: GOOD BINDING ON PLASTICS
- CAN BE USED IN IMMUNOAFFINITY CHROMATOGRAPHY for purification of Mouse Kappa Ig (Solid phase Sepharose 4B CNBr act.)

LYOPHILIZATION :

Yes.

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

REFERENCE :

- (1) 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. : 615-618
- (2) Differentiation of membrane IgE+ rat B cells into IgE-secreting cells. (In Immunology on 1 August 1993 by Vanhove, B. & Bazin, H.)
- (3) Rat (and mouse) monoclonal antibodies. VIII. ELISA measurement of Ig production in mouse hybridoma culture supernatants. (In Journal of Immunological Methods on 20 July 1990 by Delaunay, T., Louahed, J., et al.)
- (4) Delaunay T. et al. J. Immunol. Methods, 1990, 131: 33-39.
- (5) Vanhove B., Bazin H. Immunology 1993, 79: 580-586.

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

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