DESIGNATION OF CELL LINE AND PRODUCT : *LO-MG1-13*

IMMUNOGEN :

SUBSTANCE NAME : purified mouse IgG1 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-MG1-13 HYBRIDOMA
NAME FOR PRODUCT : LO-MG1-13 MONO Ab
ICDB NUMBER : 3003928

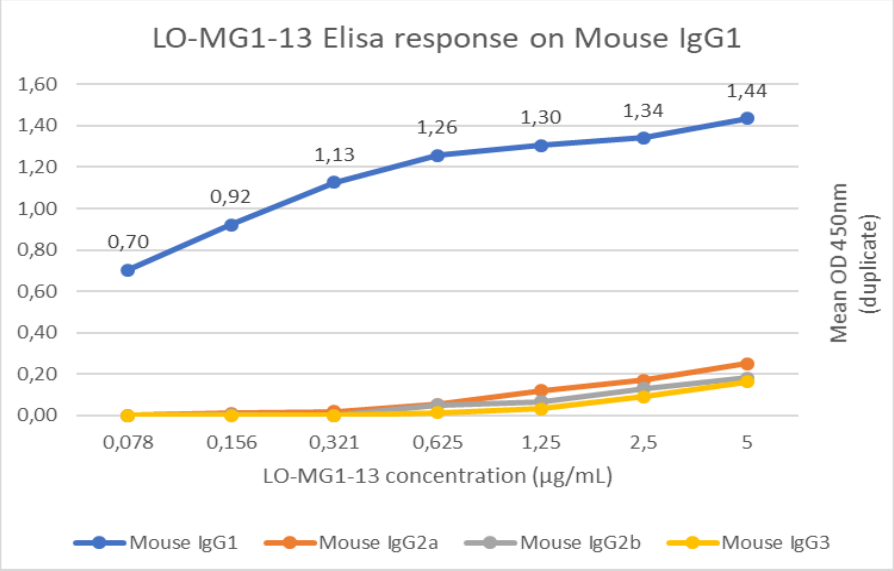
REACTIVITY:

Mouse gamma1 heavy chain of immunoglobulin (determined by immunodot)
The specificity of every rat monoclonal antibody anti-mouse IgG subclasses is determined in a range of optimal concentrations. Increasing the first or the second antibody at an unnecessary too high concentration can induce possible cross-reactions with other mouse IgG subclasses.
LO-MG1-2 and LO-MG1-13 do not bind to the same epitope.

CROSS-REACTIVITY:

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

SPECIFICITY ON ELISA:



- Detection antibody : LO-MG1-13 Pure
- Secondary antibody : MARK-3-HRP

AVIDITY: On mouse IgG1: 5.1 x $10^9 M^{-1}$ (Cf. avidity sheet, for more details).

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
- CAN BE COATED ON NITROCELLULOSE (DOT-ELISPOT)
- CAN BE USED ON CRYOSECTIONS (IMMUNOHISTOLOGY) AS FIRST (ON MOUSE) OR AS SECOND ANTIBODY (ON RAT) LABELLED WITH PEROXIDASE

LYOPHILIZATION : not tested

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 collloquium 1981 Pergamon Press Oxford and N.Y. : 615-618
(2)Isotype characterization of rat preformed natural antibodies against guinea pig cells. Soares M. et al. Transplantation Proceedings, 1992, 24:51-452.
(3)Resting B cells can act as antigen presenting cells in vivo and induce antibody responses. Denis O. et al. Int. Immunol., 1993, 5 (1): 71-78.
(4)In vivo depletion of xenoreactive natural antibodies with an anti-mu monoclonal antibody. Soares M. et al. Transplantation 1993, 56: 1427-1433.
(5)Induction of Th2 responses to soluble proteins is independent of B cell tolerance status. Van Mechelen M. et al. Int. Immunol. 1995, 7: 199-205.

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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