

## DESIGNATION OF CELL LINE AND PRODUCT : *LO-MG2a-7*

### IMMUNOGEN :

**SUBSTANCE NAME** : purified IgG 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-MG2a-7 HYBRIDOMA  
**NAME FOR PRODUCT** : LO-MG2a-7 MONO Ab  
**ICDB NUMBER** : 3003930

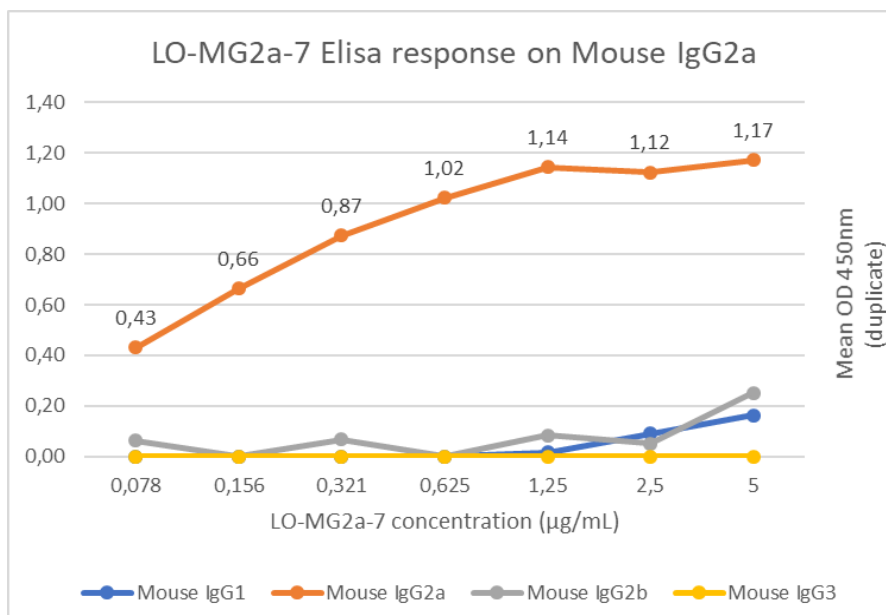
### REACTIVITY :

Mouse Gamma2a Heavy Chain of Immunoglobulin (determined by ELISA), positively tested on BALB/c and negatively or very weakly on C57BL/6 mouse sera. 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.

### CROSS-REACTIVITY:

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

### SPECIFICITY ON ELISA:



- Detection antibody : LO-MG2a-7 Pure
- Secondary antibody : MARK-3-HRP



**AVIDITY :**

On mouse IgG2a:  $5.1 \times 10^9 \text{ M}^{-1}$

**APPLICATIONS : Cf REACTIVITY**

- CAN BE LABELLED WITH BIOTIN, FITC AND PEROXIDASE
- CAN BE USED AS SECOND ANTIBODY IN IMMUNOASSAYS
- CAPTURE ELISA: GOOD BINDING ON PLASTICS
- CAN BE COATED ON NITROCELLULOSE (DOT-ELISPOT)

**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 Colloquium 1981 Pergamon Press, Oxford and N.Y., pp. 615-618.
- (2) Cornulin, a marker of late epidermal differentiation, is down-regulated in eczema. (In Allergy on 1 February 2009 by Liedén, A., Ekelund, E., et al.)
- (3) Intramuscular immunization with DNA construct containing Der p 2 and signal peptide sequences primed strong IgE production. (In Vaccine on 17 July 2006 by Tan, L. K., Huang, C. H., et al.)
- (4) Deoxynivalenol (DON) is toxic to human colonic, lung and monocytic cell lines, but does not increase the IgE response in a mouse model for allergy. (In Toxicology on 1 November 2004 by Instanes, C. & Hetland, G.)
- (5) Reversal of established CD4+ type 2 T helper-mediated allergic airway inflammation and eosinophilia by therapeutic treatment with DNA vaccines limits progression towards chronic inflammation and remodelling. (In Immunology on 1 August 2004 by Jarman, E. R. & Lamb, J. R.)
- (6) Role of prostaglandin I2 in airway remodeling induced by repeated allergen challenge in mice. (In American Journal of Respiratory Cell and Molecular Biology on 1 September 2003 by Nagao, K., Tanaka, H., et al.)
- (7) The effect of endotoxin on the production of IgE, IgG1 and IgG2a antibodies against the cat allergen Fel d 1 in mice. (In Toxicology on 30 June 2003 by Ormstad, H., Groeng, E. C., et al.)
- (8) Expression and immunogenicity of the major house dust mite allergen Der p 1 following DNA immunization. (In Vaccine on 7 March 2003 by Wolfowicz, C. B., HuangFu, T., et al.)
- (9) Suppression of allergen reactive Th2 mediated responses and pulmonary eosinophilia by intranasal administration of an immunodominant peptide is linked to IL-10 production. (In Vaccine on 17 January 2003 by Hall, G., Houghton, C. G., et al.)
- (10) The fungal cell wall component beta-1,3-glucan has an adjuvant effect on the allergic response to ovalbumin in mice. (In Journal of Toxicology and Environmental Health. Part A on 15 September 2000 by Ormstad, H., Groeng, E. C., et al.)
- (11) Induction of Th2 responses to soluble proteins is independent of B cell tolerance status. (In International Immunology on 1 February 1995 by Van Mechelen, M., de Wit, D., et al.)
- (12) 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.

**FOR RESEARCH ONLY**