Datasheet: MCA421P BATCH NUMBER 157125

| Description: | RAT ANTI MOUSE IgG2a HEAVY CHAIN:HRP |
|---------------|--------------------------------------|
| Specificity: | IgG2a HEAVY CHAIN |
| Format: | HRP |
| Product Type: | Monoclonal Antibody |
| Clone: | LO-MG2a-7 |
| lsotype: | lgG1 |
| Quantity: | 0.5 mg |
| | |

Product Details

| Applications | This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit <u>www.bio-</u> | | | | | |
|-----------------------------------|--|----------------------|------------|-------------------------|--------------------|--|
| | rad-antibodies.com/proto | <u>cois</u> . Yes | No | Not Determined | Suggested Dilution | |
| | Immunohistology - Frozen | 162 | NO | | Suggested Dilution | |
| | Immunohistology - Paraffin | | | - | | |
| | ELISA | | | | 0.5ug/ml | |
| | Western Blotting | | | • | 0.009/111 | |
| | Where this antibody has not been tested for use in a particular technique this does not | | | | | |
| | necessarily exclude its us a guide only. It is recomn system using appropriate | nended th | at the use | r titrates the antibody | • | |
| Target Species | Mouse | | | | | |
| Product Form | Purified IgG conjugated to Horseradish Peroxidase (HRP) - liquid | | | | | |
| Preparation | Purified IgG prepared by affinity chromatography from tissue culture supernatant | | | | | |
| Buffer Solution | Phosphate buffered saline | | | | | |
| Preservative Stabilisers | 0.01% Thiomersal 50% Glycerol | | | | | |
| Approx. Protein Concentrations | IgG concentration 1 mg/ml | | | | | |

| Immunogen | Purified IgG from BALB/c mice. |
|----------------------------|---|
| External Database Links | UniProt: |
| | P01863 Related reagents |
| | P01865 Related reagents |
| | P01864 Related reagents |
| | <u>·····································</u> |
| | Entrez Gene: |
| | <u>380793</u> Igh-1a <u>Related reagents</u> |
| | 380793 Igh-1a Related reagents |
| | <u>380793</u> Igh-1a <u>Related reagents</u> |
| | |
| RRID | AB_321825 |
| Fusion Partners | Spleen cells from immunised LOU/c rats were fused with cells of the rat IR983F myeloma cell line. |
| Specificity | Rat anti Mouse IgG2a:Biotin, clone LO-MG2a-7 recognizes the gamma 2a heavy chain of mouse immunoglobulin and does not cross-react with other murine immunoglobulin classes or subclasses. Rat anti Mouse IgG2a Heavy Chain antibody, clone LO-MG2a-7 recognizes an allotypic determinant upon mouse IgG2a. It recognizes the IgHIa allotype (as expressed in Balb/c mice), but not the IgHIb allotype (as expressed in C57/BL mice). |
| References | Jarman, E.R. & Lamb, J.R. (2004) 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. <u>Immunology.</u> <u>112 (4): 631-42.</u> Bazin, H. (1982) Production of rat monoclonal antibodies with the LOU rat non secreting IR983F myeloma cell line. Prot Biol Fluids 615 - 8. Pergamon Press, Oxford and New York. Nagao, K. <i>et al.</i> (2003) Role of prostaglandin I2 in airway remodeling induced by repeated allergen challenge in mice. <u>Am J Respir Cell Mol Biol. 29: 314-20.</u> Bazin, H. <i>et al.</i> (1984) Rat monoclonal antibodies. I. Rapid purification from in vitro culture supernatants. <u>J Immunol Methods. 66 (2): 261-9.</u> Bazin, H. <i>et al.</i> (1984) Rat monoclonal antibodies. II. A rapid and efficient method of purification from ascitic fluid or serum. <u>J Immunol Methods. 71 (1): 9-16.</u> Ramos, J.D.A. <i>et al.</i> (2009) Characterization of Blo t 11 Monoclonal Antibodies with Constant Region Mutations Phil Sci Lett 2: 38-48. Ormstad, H. <i>et al.</i> (2000) The fungal cell wall component beta-1,3-glucan has an adjuvant effect on the allergic response to ovalbumin in mice. <u>J Toxicol Environ Health A.</u> <u>61: 55-67.</u> Hall, G. <i>et al.</i> (2003) Suppression of allergen reactive Th2 mediated responses and pulmonary eosinophilia by intranasal administration of an immunodominant peptide is linked to IL-10 production. Vaccine. 21: 549-61. |

| | p 2 and signal peptide sequences primed strong IgE production. <u>Vaccine. 24: 5762-71.</u> 11. Instanes, C. and Hetland, G. (2004) 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. <u>Toxicology. 204: 13-21.</u> | | | | | |
| | 12. Liedén, A. et al. (2009) Cornulin, a marker of late epidermal differentiation, is | | | | | |
| | down-regulated in eczema. <u>Allergy. 64:304-11.</u> | | | | | |
| | 13. Wolfowicz, C.B. et al. (2003) Expression and immunogenicity of the major house dust | | | | | |
| | mite allergen Der p 1 following DNA immunization. <u>Vaccine. 21: 1195-204.</u> | | | | | |
| 14. Hayes, K.S. et al. (2017) Chronic Trichuris muris infection causes neopl | | | | | | |
| | the intestine and exacerbates tumour formation in APC min/+ mice. PLoS Negl Trop Dis. | | | | | |
| | <u>11 (6): e0005708.</u> | | | | | |
| | 15. DeGiovanni, C. <i>et al.</i> (2019) Cancer Vaccines Co-Targeting HER2/Neu and IGF1R. | | | | | |
| | Cancers (Basel). 11 (4) Apr 11 [Epub ahead of print]. | | | | | |
| Further Reading | 1. Querinjean, P. <i>et al.</i> (1972) Transplantable immunoglobulin-secreting tumours in rats. | | | | | |
| - | Purification and chemical characterization of four kappa chains from LOU-Wsl rats. Eur J | | | | | |
| | Biochem. 31 (2): 354-9. | | | | | |
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| Storage | Store at +4°C or at -20°C if preferred. | | | | | |
| | This product should be stored undiluted. | | | | | |
| | | | | | | |
| | Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing | | | | | |
| | as this may denature the antibody. Should this product contain a precipitate we | | | | | |
| | recommend microcentrifugation before use. | | | | | |
| Guarantee | 12 months from date of despatch | | | | | |
| Health And Safety | Material Safety Datasheet documentation #10097 available at: | | | | | |
| Information | https://www.bio-rad-antibodies.com/SDS/MCA421P | | | | | |
| | 10097 | | | | | |
| Regulatory | For research purposes only | | | | | |

Related Products

Recommended Useful Reagents

AbGUARD® HRP STABILIZER PLUS (BUF052A) AbGUARD® HRP STABILIZER PLUS (BUF052B) AbGUARD® HRP STABILIZER PLUS (BUF052C) TMB CORE (BUF056A) TMB CORE+ (BUF062A) TMB SIGNAL+ (BUF054A)

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