Datasheet: MCA2259

BATCH NUMBER 158553

Description:	MOUSE ANTI OVALBUMIN
Specificity:	OVALBUMIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	2C6
Isotype:	IgE
Quantity:	0.1 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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			1/1000 - 1/5000
Immunoprecipitation			▪	
Western Blotting			▪	

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Chicken
Product Form	Purified IgE - liquid
Preparation	Purified IgE prepared from tissue culture supernatant.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Approx. Protein Concentrations	IgE concentration 1.0 mg/ml

Immunogen	Ovalbumin.
RRID	AB_2285753
Fusion Partners	Spleen cells from immunized Balb/c mice were fused with cells of the mouse myeloma, P3U1.
Specificity	**Mouse anti Ovalbumin antibody, clone 2C6** recognises ovalbumin (OVA). The antibody is suitable for use as a mouse IgE standard in ELISA assays (Hamada*et al.* 2003).
References	1. Stevens, T. *et al.* (2008) Increased transcription of immune and metabolic pathways in naive and allergic mice exposed to diesel exhaust. Toxicol Sci. 102: 359-70. 2. Fairley, K.J. *et al.* (2007) Exposure to the immunosuppressant, perfluorooctanoic acid, enhances the murine IgE and airway hyperreactivity response to ovalbumin. Toxicol Sci. 97 (2): 375-83. 3. Ellertsen,L.K. *et al.* (2010) Maternal allergen immunisation to prevent sensitisation in offspring: Th2-polarising adjuvants are more efficient than a Th1-polarising adjuvant in mice. BMC Immunol. 11: 8-17 4. Kambayashi, T. *et al.* (2008) Indirect involvement of allergen-captured mast cells in antigen presentation. Blood. 111:1489-96. 5. Paliwal, S. *et al.* (2010) One-step acquisition of functional biomolecules from tissues. Proc Natl Acad Sci U S A. 107: 14627-32. 6. Chida, Y. *et al.* (2007) Early-life psychological stress exacerbates adult mouse asthma via the hypothalamus-pituitary-adrenal axis. Am J Respir Crit Care Med. 175: 316-22. 7. Suzaki, Y. *et al.* (2007) A small-molecule compound targeting CCR5 and CXCR3 prevents airway hyperresponsiveness and inflammation. Eur Respir J. 31: 783-9. 8. Suzaki, Y. *et al.* (2005) A potent antiangiogenic factor, endostatin prevents the development of asthma in a murine model. J Allergy Clin Immunol. 116 (6): 1220-7. 9. Hansen, J.S. *et al.* (2011) Determinants of experimental allergic responses: interactions between allergen dose, sex and age. Scand J Immunol. 73 (6): 554-67. 10. Nygaard, U.C. *et al.* (2015) Early life exposure to bisphenol A investigated in mouse models of airway allergy, food allergy and oral tolerance. Food Chem Toxicol. 83: 17-25. 11. Shershakova N *et al.* (2015) Allergen-Specific Immunotherapy with Monomeric Allergoid in a Mouse Model of Atopic Dermatitis. PLoS One. 10 (8): e0135070. 12. Piro B. *et al.* (2011) Towards the detection of human papillomavirus infection by a reagentless electrochemical peptide biosensor Electrochimica Acta. 56 (28): 10688-93. 13. Diesner, S.C. *et al.* (2016) A distinct microbiota composition is associated with protection from food allergy in an oral mouse immunization model. Clin Immunol. pii: S1521-6616(16)30300-X. [Epub ahead of print] 14. Cheung DS *et al.* (2010) Development of atopy by severe paramyxoviral infection in a mouse model. Ann Allergy Asthma Immunol. 105 (6): 437-443.e1. 15. Garbani, M. *et al.* (2017) Allergen-loaded strontium-doped hydroxyapatite spheres improve allergen-specific immunotherapy in mice. Allergy. 72 (4): 570-8. 16. Mothes, B. *et al.* (2016) p110γ/δ Double-Deficiency Induces Eosinophilia and IgE Production but Protects from OVA-Induced Airway Inflammation. PLoS One. 11 (7): e0159310. 17. Mitragotri, S. *et al.* (2015) Compositions for Solubilizing Cells and/or Tissue Pat app

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18. Andreassen, M. *et al.* (2015) Cry1Ab protein from *Bacillus thuringiensis* and MON810 cry1Ab-transgenic maize exerts no adjuvant effect after airway exposure. Scand J Immunol. 81 (3): 192-200.
19. Shin, W.*et al.* (2018) V-set and Ig domain-containing 4 (VSIG4)-expressing hepatic F4/80^{+} cells regulate oral antigen-specific responses in mouse. Eur J Immunol. 48 (4): 632-43.
20. Boehne, C. *et al.* (2021) Tim-3 is dispensable for allergic inflammation and respiratory tolerance in experimental asthma. PLoS One. 16 (4): e0249605.
21. Haselmayer, P. *et al.* (2019) Efficacy and Pharmacodynamic Modeling of the BTK Inhibitor Evobrutinib in Autoimmune Disease Models. J Immunol. 202 (10): 2888-906.
22. Ghonim, M.A. *et al.* (2018) Sulfated non-anticoagulant heparin blocks Th2-induced asthma by modulating the IL-4/signal transducer and activator of transcription 6/Janus kinase 1 pathway. J Transl Med. 16 (1): 243.

Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2259 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rat Anti Mouse IgE HEAVY CHAIN (MCA419...) HRP

North & South America Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com
Worldwide Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com
Europe Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
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