

Datasheet: MCA6012GA

BATCH NUMBER 149223

Description:	MOUSE ANTI CHICKEN CD184 / CXCR4
Specificity:	CD184 / CXCR4
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	9D9
Isotype:	IgG2a
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			▪	
Immunoprecipitation			▪	
Western Blotting			▪	
Immunofluorescence	▪			

Where this product 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 product for use in their own system using appropriate negative/positive controls.

Target Species	Chicken
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Chicken CXCR4 (chCXCR4) transfected HEK294 cells
External Database Links	UniProt: Q9DGI1 Related reagents
Specificity	<p>Mouse anti Chicken CD184 / CXCR4 clone 9D9, recognizes the chicken homologue of human CD184, also known as CXCR4 (C-X-C Receptor type 4) and fusin.</p> <p>CXCR4 is a receptor for the chemokine, stromal-derived factor-1 (SDF-1), also known as CXCL12. Research has demonstrated that in chicks CXCR4 is expressed by cardiac neural crest cells and together with SDF-1 is involved with the migration of cells and development of the heart. Where CXCR4 function is lost, cell migration is impaired resulting in cell death and misexpression of SDF-1 leading to cardiovascular defects (Escot <i>et al.</i> 2013). CXCR4 expression is also linked with other development processes including cerebellar development and with vascularization of the gastrointestinal tract. Clone 9D9 provides a useful antibody for studying development biological processes.</p> <p>Bursa cells may be used as a positive control for CXCR4 in flow cytometry.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul
References	1. Escot, S. <i>et al.</i> (2013) Misregulation of SDF1-CXCR4 signaling impairs early cardiac neural crest cell migration leading to conotruncal defects. Circ Res. 113: 505-16.
Further Reading	1. Kaiser, P. <i>et al.</i> (2005) A genomic analysis of chicken cytokines and chemokines. J Interferon Cytokine Res. 25: 467-84.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
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/MCA6012GA 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),
[FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

Recommended Useful Reagents

[MOUSE ANTI GROWTH CONE \(MCA1712\)](#)

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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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