

Datasheet: MCA6012GA

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	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. 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. Bursa cells may be used as a positive control for CXCR4 in flow cytometry.
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	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. 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.
Shelf Life	18 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Human Anti Mouse IgG2a (HCA037...)	FITC , HRP

Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

Recommended Useful Reagents

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

North & South Tel: +1 800 265 7376

America 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

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