

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	<0.1% Sodium Azide (NaN ₃)
Approx. Protein	IgG concentration 1.0 mg/ml

Concentrations

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 *et al.* 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 1×10^6 cells in 100ul

References

1. Escot, S. *et al.* (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. *et al.* (2005) A genomic analysis of chicken cytokines and chemokines. [J Interferon Cytokine Res. 25: 467-84.](#)

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: 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 (STAR77...)

[HRP](#)

Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR76...)	RPE
Human Anti Mouse IgG2a (HCA037...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP

Recommended Useful Reagents

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

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
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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
'M389662:210806'

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