

Datasheet: MCA5985GA

Description:	MOUSE ANTI HUMAN IP-10
Specificity:	IP-10
Other names:	CXCL10
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	A02-1E10
Isotype:	IgG2b
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
ELISA	▪			

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	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from serum free tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	<i>E. coli</i> derived recombinant protein corresponding to aa 22-98 of human IP-10

**External Database
Links**

UniProt:

[P02778](#) [Related reagents](#)

Entrez Gene:

[3627](#) CXCL10 [Related reagents](#)

Synonyms

INP10, SCYB10

Fusion Partners

Spleen cells from immunized BALB/c mice were fused with cells of the SP2/0 myeloma cell line

Specificity

Mouse anti Human IP-10, clone A02-1E10 recognizes the chemokine IP-10. IP-10, also known as CXCL10, is a small cytokine belonging to the CXC chemokine family. IP-10 cDNA encodes a 98 amino acid protein which is cleaved and secreted from a wide variety of cell types in response to interferon gamma and other inflammatory cytokines ([Ohmori & Hamilton 1995](#)).

IP-10 exerts its biological effects mainly via binding to CXCR3 ([van den Borne *et al.* 2014](#)). Also, CXCR3-independent pathways have been studied for IP-10/CXCL10 involving binding to heparan sulfate glycosaminoglycans (GAGs). IP-10 not only induces chemoattraction of inflammatory cells, but also migration and proliferation of endothelial cells and VSMCs ([Wang *et al.* 1996](#)).

Further Reading

1. van den Borne, P. *et al.* (2014) The multifaceted functions of CXCL10 in cardiovascular disease [Biomed Res Int. 2014: 893106.](#)
2. Ohmori, Y. & Hamilton, T.A. (1994) Cell type and stimulus specific regulation of chemokine gene expression [Biochem Biophys Res Commun. 198: 590-6.](#)
3. Wang, X. *et al.* (1996) Interferon-inducible protein-10 involves vascular smooth muscle cell migration, proliferation, and inflammatory response [J Biol Chem. 271: 24286-93.](#)

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/MCA5985GA>
10040

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
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 Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

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
'M389643:210806'

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