

## Datasheet: MCA5985GA

**BATCH NUMBER 280814**

<b>Description:</b>	MOUSE ANTI HUMAN IP-10
<b>Specificity:</b>	IP-10
<b>Other names:</b>	CXCL10
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	A02-1E10
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from serum free tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	<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](#)

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**Synonyms**

INP10, SCYB10

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**Fusion Partners**

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

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**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](#)).

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**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.](#)

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**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.

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**Guarantee**

12 months from date of despatch

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10040 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA5985GA>  
10040

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**Regulatory**

For research purposes only

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## 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](#)

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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](https://bio-rad-antibodies.com/datasheets)  
 'M368569:200529'

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