

Datasheet: MCA6195B

**BATCH NUMBER 100005422**

<b>Description:</b>	MOUSE ANTI HUMAN INTERLEUKIN-12 p40:Biotin
<b>Specificity:</b>	IL-12 p40
<b>Other names:</b>	IL-12B
<b>Format:</b>	Biotin
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	M18
<b>Isotype:</b>	IgG2a
<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	▪			1.0 ug/ml

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 conjugated to Biotin - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Stabilisers</b>	1% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml
<b>Immunogen</b>	<i>E. coli</i> derived recombinant human full length interleukin-12 p40 (Ile23-Ser328)

---

**External Database****Links****UniProt:**[P29460](#)[Related reagents](#)**Entrez Gene:**[3593](#)

IL12B

[Related reagents](#)

---

**Synonyms**

NKSF2

---

**Fusion Partners**

Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0

---

**Specificity**

**Mouse anti Human Interleukin-12 p40 antibody, clone M18**, recognizes interleukin-12 p40 (IL-12 p40) also known as interleukin-12 subunit beta and cytotoxic lymphocyte maturation factor 40 kDa subunit. IL-12 is a heterodimeric cytokine composed of 2 subunits, a 35 kDa subunit (p35) and a 40 kDa subunit (p40). The IL-12 p40 subunit is largely expressed by dendritic cells, monocytes, macrophages, neutrophils, B-lymphocytes and keratinocytes ([Airoldi et al. 2002](#)). It is able to form a homodimer, which was believed to be inactive. However it has subsequently been demonstrated to have proinflammatory properties through its induction of inducible nitric oxide synthase in microglia ([Pahan et al. 2001](#), [Jana et al. 2009](#)). IL-12 p40 coupled to the protein p19 forms the heterodimer IL-23 (p19-p40), when this formation takes place in activated dendritic cells the p19-p40 binds to its receptor IL-12R $\beta$ 1 to activate the STAT4 signaling pathway. This results in the stimulation of IFN $\gamma$  production along with proliferation of PHA blast T cells ([Airoldi et al. 2002](#)).

The biotinylated Mouse anti Human interleukin-12 p40 antibody, clone M18 (MCA6195B) can be used as a detection antibody in a sandwich ELISA with the purified Mouse anti Human interleukin-12 p40 antibody, clone D14-5G11 ([MCA6194GA](#)) as the capture antibody.

---

**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.

---

**Guarantee**

12 months from date of despatch

---

**Health And Safety Information**

Material Safety Datasheet documentation #10041 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA6195B>  
10041

---

**Regulatory**

For research purposes only

---

**Related Products****Recommended Useful Reagents**[MOUSE ANTI HUMAN INTERLEUKIN-12 p40 \(MCA6194GA\)](#)

## ELISA Matched Pair - Capture Antibody

### MOUSE ANTI HUMAN INTERLEUKIN-12 p40 (MCA6194GA)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
----------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------	------------------	-------------------------------------------------------------------------------------------------------------------------------------------------	---------------	-----------------------------------------------------------------------------------------------------------------------------------------------------

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)  
'M387278:210621'

Printed on 16 Aug 2023

---

© 2023 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)