

## Datasheet: MCA6194GA

**BATCH NUMBER 100005567**

<b>Description:</b>	MOUSE ANTI HUMAN INTERLEUKIN-12 p40
<b>Specificity:</b>	IL-12 p40
<b>Other names:</b>	IL-12B
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	D14-5G11
<b>Isotype:</b>	IgG1
<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 - 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 Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml

<b>Immunogen</b>	<i>E. coli</i> derived recombinant human full length interleukin-12 p40 (Ile23-Ser328)
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P29460</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">3593</a>    IL12B    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	NKSF2
<b>Fusion Partners</b>	Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0
<b>Specificity</b>	<p><b>Mouse anti Human Interleukin-12 p40 antibody, clone D14-5G11</b>, 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 (<a href="#">Airoldi et al. 2002</a>). 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 (<a href="#">Pahan et al. 2001</a>, <a href="#">Jana et al. 2009</a>). 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-12Rβ1 to activate the STAT4 signaling pathway. This results in the stimulation of IFNγ production along with proliferation of PHA blast T cells (<a href="#">Airoldi et al. 2002</a>).</p> <p>The purified Mouse anti Human interleukin-12 p40 antibody, clone D14-5G11 (MCA6194GA) can be used as a capture antibody in a sandwich ELISA with the biotinylated Mouse anti Human interleukin-12 p40 antibody, clone M18 (<a href="#">MCA6195B</a>) as the detection antibody.</p>
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: 10040: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®550</a> , <a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>

## Recommended Useful Reagents

[MOUSE ANTI HUMAN INTERLEUKIN-12 p40:Biotin \(MCA6195B\)](#)

## ELISA Matched Pair - Detection Antibody

[MOUSE ANTI HUMAN INTERLEUKIN-12 p40:Biotin \(MCA6195B\)](#)

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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)

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