

Datasheet: MCA6194GA

BATCH NUMBER 100005567

Description:	MOUSE ANTI HUMAN INTERLEUKIN-12 p40
Specificity:	IL-12 p40
Other names:	IL-12B
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	D14-5G11
Isotype:	IgG1
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	▪			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.

Target Species	Human
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	0.09% Sodium Azide (NaN ₃)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml

Immunogen	<i>E. coli</i> derived recombinant human full length interleukin-12 p40 (Ile23-Ser328)
External Database Links	<p>UniProt: P29460 Related reagents</p> <p>Entrez Gene: 3593 IL12B Related reagents</p>
Synonyms	NKSF2
Fusion Partners	Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0
Specificity	<p>Mouse anti Human Interleukin-12 p40 antibody, clone D14-5G11, 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 (Airoidi 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-12Rβ1 to activate the STAT4 signaling pathway. This results in the stimulation of IFNγ production along with proliferation of PHA blast T cells (Airoidi et al. 2002).</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 (MCA6195B) as the detection antibody.</p>
Storage	<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>
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/MCA6194GA 10040
Regulatory	For research purposes only

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

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
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