

## Datasheet: MCA6291B

<b>Description:</b>	MOUSE ANTI HUMAN YKL-40:Biotin
<b>Specificity:</b>	YKL-40
<b>Other names:</b>	Chitinase-3-like protein 1
<b>Format:</b>	Biotin
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	G03-2H1
<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 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 Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> ) 1% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml
<b>Immunogen</b>	NS0 derived recombinant full length human YKL-40 (Tyr22-Thr383)

**External Database  
Links**

**UniProt:**

[P36222](#)   [Related reagents](#)

**Entrez Gene:**

[1116](#)   CHI3L1   [Related reagents](#)

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

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**Specificity**   **Mouse anti Human YKL-40 antibody, clone G03-2H1**, recognizes YKL-40, also known as chitinase-3-like protein 1, 39kDA synovial protein and cartilage glycoprotein 39. YKL-40 is a glycoprotein and a member of the mammalian chitinase-like proteins ([Johansen \*et al.\* 2006](#)). It is expressed by a variety of cells including macrophages, neutrophils, chondrocytes, fibroblasts, vascular smooth muscle cells, endothelial cells and epithelial cells ([Lee \*et al.\* 2011](#)). YKL-40 induces the maturation of monocytes to macrophages and is secreted by macrophages during late stages of differentiation and by activated macrophages. It has also been shown to be an adhesion and migration factor for vascular cells ([Rathcke & Vestergaard 2009](#)).

The biotinylated Mouse anti Human YKL-40 antibody, clone G03-2H1 (MCA6291B) can be used as a detection antibody in a sandwich ELISA with the purified Mouse anti Human YKL-40 antibody, clone G06-10H11 ([MCA6290GA](#)) as the capture antibody.

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**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.

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**Guarantee**   12 months from date of despatch

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**Health And Safety Information**   Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA6291B>  
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**Regulatory**   For research purposes only

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## Related Products

### Recommended Useful Reagents

[MOUSE ANTI HUMAN YKL-40 \(MCA6290GA\)](#)

**North & South America**   Tel: +1 800 265 7376

Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto: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](mailto: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](mailto:antibody_sales_de@bio-rad.com)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)

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