

Datasheet: MCA6291B

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

**External Database
Links**

UniProt:

[P36222](#) [Related reagents](#)

Entrez Gene:

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

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

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.

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.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10041 available at: 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory For research purposes only

Related Products

Recommended Useful Reagents

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

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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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