

Datasheet: VMA00633

Description:	MOUSE ANTI INTERLEUKIN-1 BETA
Specificity:	IL-1 BETA
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	OTI1A7
Isotype:	IgG1
Quantity:	100 µl

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
Western Blotting	■			1/1000

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Learn about [how we validate our PrecisionAb range](#). Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Mouse monoclonal antibody purified by affinity chromatography on Protein G from ascites.
Buffer Solution	Phosphate buffered saline.
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin <50% Glycerol
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml.
Immunogen	HEK293-derived full length recombinant IL-1 beta

**External Database
Links**

UniProt:

[P01584](#)

[Related reagents](#)

Entrez Gene:

[3553](#)

IL1B

[Related reagents](#)

Synonyms

IL1F2

Specificity

Mouse anti Human interleukin-1 beta antibody recognizes interleukin-1 beta, also known as catabolin, pre-interleukin 1 beta and pro-interleukin-1-beta.

The protein encoded by IL1B is a member of the interleukin 1 cytokine family. This cytokine is produced by activated macrophages as a proprotein, which is proteolytically processed to its active form by caspase 1 (CASP1/ICE). This cytokine is an important mediator of the inflammatory response, and is involved in a variety of cellular activities, including cell proliferation, differentiation, and apoptosis. The induction of cyclooxygenase-2 (PTGS2/COX2) by this cytokine in the central nervous system (CNS) is found to contribute to inflammatory pain hypersensitivity. IL1B and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2 (provided by RefSeq, Jul 2008).

Mouse anti Human interleukin-1 beta antibody detects a band of 31 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

Western Blotting

Mouse anti interleukin-1 beta antibody detects a band of approximately 31 kDa in LPS-stimulated THP-1 cell lysates.

Storage

This product is shipped at ambient temperature.
Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

Guarantee

12 months from date of despatch.

Acknowledgements

PrecisionAb is a trademark of Bio-Rad Laboratories.

**Health And Safety
Information**

Material Safety Datasheet documentation #10048 available at:
<https://www.bio-rad-antibodies.com/SDS/VMA00633>

Regulatory

For research purposes only.

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

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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