

## Datasheet: VMA00255

<b>Description:</b>	MOUSE ANTI ARNTL
<b>Specificity:</b>	ARNTL
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	OTI3G9
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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. Click [here](#) to learn 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

### Species Cross Reactivity

Reacts with: Mouse, Rat

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

### Product Form

Purified IgG - liquid

### Preparation

Mouse monoclonal antibody purified by affinity chromatography from ascites.

### Buffer Solution

Phosphate buffered saline.

### Preservative Stabilisers

0.09% Sodium Azide (NaN<sub>3</sub>)  
1% Bovine Serum Albumin  
50% Glycerol

**Immunogen** Full length recombinant human ARNTL produced in HEK293T cells

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**External Database**

**Links**

**UniProt:**

[O00327](#)

[Related reagents](#)

**Entrez Gene:**

[406](#)

ARNTL

[Related reagents](#)

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**Synonyms**

BHLHE5, BMAL1, MOP3, PASD3

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**Specificity**

**Mouse anti Human ARNTL antibody, clone OTI3G9** recognizes the aryl hydrocarbon receptor nuclear translocator-like protein 1, also known as ARNT-like protein 1, brain and muscle, PAS domain-containing protein 3, aryl hydrocarbon receptor nuclear translocator-like protein 1, bHLH-PAS protein JAP3, basic-helix-loop-helix-PAS orphan MOP3, basic-helix-loop-helix-PAS protein MOP3, brain and muscle ARNT-like 1, class E basic helix-loop-helix protein 5, member of PAS protein 3 and member of PAS superfamily 3.

Encoded by ARNTL gene, the aryl hydrocarbon receptor nuclear translocator-like protein 1 is a basic helix-loop-helix protein that forms a heterodimer with CLOCK. This complex binds an E-box upstream of the PER1 gene, activating ARNTL and possibly other circadian rhythm-associated genes. Three transcript variants encoding two different isoforms have been found for ARNTL (provided by RefSeq, Jul 2008).

Mouse anti Human ARNTL antibody, clone OTI3G9 detects a band of 78 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

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**Western Blotting**

Anti ARTNL detects a band of approximately 78 kDa in NIH/3T3 cell lysates.

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**Storage**

Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

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**Guarantee**

12 months from date of despatch.

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**Acknowledgements**

PrecisionAb is a trademark of Bio-Rad Laboratories.

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**Health And Safety**

**Information**

Material Safety Datasheet documentation #10048 available at:

Antibody (10048): <https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf>

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**Regulatory**

For research purposes only.

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## Related Products

### Recommended Secondary Antibodies

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

### Recommended Negative Controls

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

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

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**Europe** Tel: +49 (0) 89 8090 95 21

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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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