

## Datasheet: VMA00255KT

<b>Description:</b>	ARNTL ANTIBODY WITH CONTROL LYSATE
<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>	2 Westerns

## 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

**PrecisionAb antibodies have been extensively [validated for the western blot application](#).** The antibody has been validated at the suggested dilution. 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 dependant 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

20µl 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

---

**External Database Links**

**UniProt:**

[O00327](#) [Related reagents](#)

**Entrez Gene:**

[406](#) ARNTL [Related reagents](#)

---

**Synonyms** BHLHE5, BMAL1, MOP3, PASD3

---

**Specificity**

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

---

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

---

**Instructions For Use** Please refer to the [PrecisionAb western blotting protocol](#). For additional information on secondary antibody dilution and exposure time see product web page.

---

**Lysate Composition** 400µg NIH/3T3 lysate lyophilized in RIPA buffer.

---

**Lysate Reconstitution**

- If using DDT reconstitute the lyophilized lysate with 190µl DI H<sub>2</sub>O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT.
- If using BME reconstitute the lyophilized lysate with 180µl DI H<sub>2</sub>O, add 200µl 2x Laemmli Sample Buffer and 20µl BME.

Heat at 95°C for 5 minutes. For 10 well mini gels load 25µl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol.

---

**Storage**

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

Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20°C for up to 3 months or at -80°C for longer term storage.

---

**Guarantee** As supplied, 12 months from date of despatch.

---

**Acknowledgements** PrecisionAb™ is a trademark of Bio-Rad Laboratories.

---

**Health And Safety Information** Material Safety Datasheet documentation #10048 #10561 available at:  
Antibody (10048): <https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf>  
Lysate Material (10561): <https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf>

---

**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 \(MCA928\)](#)

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

**America** 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)

From March 15, 2021, we will no longer supply printed datasheets with our products.

Look out for updates on how to access your digital version at [bio-rad-antibodies.com](http://bio-rad-antibodies.com)

'M351048:190315'

**Printed on 10 Feb 2021**

---

© 2021 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)