Datasheet: VMA00255KT

Description:	ARNTL ANTIBODY WITH CONTROL LYSATE
Specificity:	ARNTL
Format:	Purified
Product Type:	PrecisionAb™ Monoclonal
Clone:	OTI3G9
Isotype:	IgG1
Quantity:	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.

	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.

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_3)
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 rhythym-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_2O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT. - If using BME reconstitute the lyophilized lysate with 180µl DI H_2O, 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.
Shelf Life	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

North & South America
Tel: +1 800 265 7376
Fax: +1 919 878 3751
Email: antibody_sales_us@bio-rad.com

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Tel: +44 (0)1865 852 700
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