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Datasheet for ABIN7101726  
**anti-ARNTL antibody**

1 Image

### Overview

Quantity:	20 µL
Target:	ARNTL
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This ARNTL antibody is un-conjugated
Application:	Western Blotting (WB)

### Product Details

Immunogen:	A synthesized peptide derived from human BMAL1
Isotype:	IgG
Cross-Reactivity:	Rat
Characteristics:	Monoclonal Antibodies
Purification:	Affinity purification

### Target Details

Target:	ARNTL
Alternative Name:	ARNTL ( <a href="#">ARNTL Products</a> )
Background:	The protein encoded by this gene is a basic helix-loop-helix protein that forms a heterodimer with CLOCK. This heterodimer binds E-box enhancer elements upstream of Period (PER1, PER2,

## Target Details

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PER3) and Cryptochrome (CRY1, CRY2) genes and activates transcription of these genes. PER and CRY proteins heterodimerize and repress their own transcription by interacting in a feedback loop with CLOCK/ARNTL complexes. Defects in this gene have been linked to infertility, problems with gluconeogenesis and lipogenesis, and altered sleep patterns. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2014],BMAL1, BMAL1c, JAP3, MOP3, PASD3, TIC, bHLHe5,Blood,Blood\_Blood Pressure regulation,Cancer,Cardiovascular,Endocrine & Metabolism,Epigenetics & Nuclear Signaling,Heart,Heart\_Cardiac metabolism,Lipid Metabolism,Lipid Metabolism\_Cholesterol Metabolism,Lipids,Neuroscience,Transcription Factors,ARNTL

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Molecular Weight: 68 kDa

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Gene ID: 406

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UniProt: [O00327](#)

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Pathways: [Regulation of Lipid Metabolism by PPARAlpha](#), [Protein targeting to Nucleus](#), [Warburg Effect](#)

## Application Details

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Application Notes: WB,1:500 - 1:2000

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Restrictions: For Research Use only

## Handling

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Buffer: PBS with 0.02 % sodium azide,0.05 % BSA,50 % glycerol, pH 7.3.

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Preservative: Sodium azide

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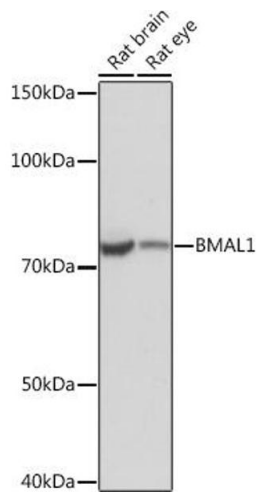
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Storage: -20 °C

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Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.



### Western Blotting

**Image 1.** Western blot analysis of extracts of various cell lines, using BM Rabbit mAb (ABIN1682539, ABIN3019161, ABIN3019162 and ABIN7101726) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 3s.