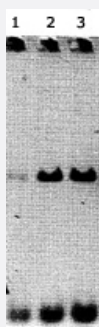


ARNTL polyclonal antibody

Catalog # PAB12484

Size 400 uL

Applications



Immunoprecipitation

Lanes 1-3 contained ARNTL immunoprecipitated DNA (60, 40 & 20 uL of antisera respectively). ARNTL polyclonal antibody (Cat # PAB12484) was used.

Specification

Product Description	Rabbit polyclonal antibody raised against recombinant ARNTL.
Immunogen	Recombinant protein corresponding to human ARNTL.
Host	Rabbit
Reactivity	Human
Specificity	This antibody is specific to MOP3/BMAL1.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Recommend Usage	Western Blot (1:100-1:200) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.02% sodium azide)
Storage Instruction	Store at 4°C. Do not freeze.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- ChIP
- Western Blot
- Immunoprecipitation

Lanes 1-3 contained ARNTL immunoprecipitated DNA (60, 40 & 20 uL of antisera respectively). ARNTL polyclonal antibody (Cat # PAB12484) was used.

Gene Info — ARNTL

Entrez GeneID	406
Protein Accession#	O00327
Gene Name	ARNTL
Gene Alias	BMAL1, BMAL1c, JAP3, MGC47515, MOP3, PASD3, TIC, bHLHe5
Gene Description	aryl hydrocarbon receptor nuclear translocator-like
Omim ID	602550
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene 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 this gene and possibly other circadian rhythm-associated genes. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq]
Other Designations	ARNT-like protein 1, brain and muscle bHLH-PAS protein JAP3 basic-helix-loop-helix-PAS orphan MOP3 member of PAS superfamily 3

Publication Reference

- [Mop3 is an essential component of the master circadian pacemaker in mammals.](#)

Bunger MK, Wilsbacher LD, Moran SM, Clendenin C, Radcliffe LA, Hogenesch JB, Simon MC, Takahashi JS, Bradfield CA. Cell 2000 Dec; 103(7):1009.

- [Antiphase circadian expression between BMAL1 and period homologue mRNA in the suprachiasmatic nucleus and peripheral tissues of rats.](#)

Oishi K, Sakamoto K, Okada T, Nagase T, Ishida N.

Biochemical and Biophysical Research Communications 1998 Dec; 253(2):199.

- [Role of the CLOCK protein in the mammalian circadian mechanism.](#)

Gekakis N, Staknis D, Nguyen HB, Davis FC, Wilsbacher LD, King DP, Takahashi JS, Weitz CJ.

Science 1998 Jun; 280(5369):1564.

Pathway

- [Circadian rhythm - mammal](#)

Disease

- [Alcoholism](#)
- [Bipolar Disorder](#)
- [Cardiovascular Diseases](#)
- [Chronobiology Disorders](#)
- [Depressive Disorder](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Head and Neck Neoplasms](#)
- [Hypertension](#)
- [Interview](#)
- [Mood Disorders](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)

- [Obesity](#)
- [Prostatic Neoplasms](#)
- [Psychiatric Status Rating Scales](#)
- [Psychotic Disorders](#)
- [Schizophrenia](#)
- [Sleep Disorders](#)