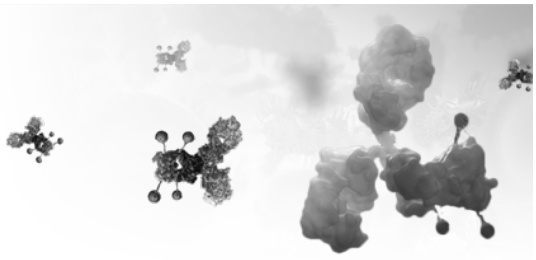

Human ARNTL blocking peptide (CDBP0608)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Blocking/Immunizing peptide for anti-BMAL1/ARNTL antibody
Antigen Description	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, 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. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jan 2014]
Species	Human
Conjugate	Unconjugated
Applications	Apuri, BL, ELISA
Format	Lyophilized powder
Size	100 µg
Preservative	None
Storage	Shipped at ambient temperature, store at -20°C.

GENE INFORMATION

Gene Name	ARNTL aryl hydrocarbon receptor nuclear translocator-like [Homo sapiens (human)]
Official Symbol	ARNTL

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Synonyms	ARNTL; aryl hydrocarbon receptor nuclear translocator-like; TIC; JAP3; MOP3; BMAL1; PASD3; BMAL1c; bHLHe5; aryl hydrocarbon receptor nuclear translocator-like protein 1; bHLH-PAS protein JAP3; member of PAS protein 3; member of PAS superfamily 3; brain and muscle ARNT-like 1; PAS domain-containing protein 3; ARNT-like protein 1, brain and muscle; basic-helix-loop-helix-PAS orphan MOP3; basic-helix-loop-helix-PAS protein MOP3; class E basic helix-loop-helix protein 5;
Entrez Gene ID	406
mRNA Refseq	NM_001030272.1
Protein Refseq	NP_001025443.1
UniProt ID	O00327
Chromosome Location	11p15
Pathway	BMAL1:CLOCK/NPAS2 Activates Circadian Expression, organism-specific biosystem; Circadian Clock, organism-specific biosystem; Circadian Repression of Expression by REV-ERBA, organism-specific biosystem; Circadian rhythm, organism-specific biosystem; Circadian rhythm, conserved biosystem; Circadian rhythm pathway, organism-specific biosystem; Diurnally regulated genes with circadian orthologs, organism-specific biosystem; Dopaminergic synapse, organism-specific biosystem; Dopaminergic synapse, con
Function	DNA binding; E-box binding; Hsp90 protein binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity; RNA polymerase II transcription factor binding transcription factor activity involved in positi

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