Product Datasheet

BMAL1 (Phospho-Ser42) Antibody

Catalog No: #14041

Package Size: #14041-1 50ul #14041-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	BMAL1 (Phospho-Ser42) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
Applications	WB
Species Reactivity	Human;Mouse;Rat
Specificity	This antibody detects endogenous levels of Human Mouse Rat BMAL1 (phospho-Ser42)
Immunogen Description	Synthesized phosho peptide around human BMAL1 (Ser42)
Conjugates	Unconjugated
Other Names	Aryl hydrocarbon receptor nuclear translocator-like protein 1 (Basic-helix-loop-helix-PAS protein MOP3) (Brain and muscle ARNT-like 1) (Class E basic helix-loop-helix protein 5) (bHLHe5) (Member of PAS protein 3) (PAS domain-containing protein 3) (bHLH-PAS protein JAP3)
Accession No.	Swiss Prot:O00327GeneID:406
Calculated MW	69 kDa
SDS-PAGE MW	78 kDa
Concentration	1 mg/ml
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	-20°C/1

Application Details

WB 1:1000-2000

Background

aryl hydrocarbon receptor nuclear translocator like(ARNTL) Homo sapiens 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. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2014],

Published Papers

Chen Haocong, Zhao Jing, Kang Yu, Wang Shuyan, Qin Dani, Yu Lingling, Zhao Yingmin, Zhang Guangming, Dong Xiaohua el at., PFGA12 ameliorates Hypoxic-Ischemic brain injury by directly regulating PRDX1 and inhibiting ferroptosis, Biochemical pharmacology, (2025)
PMID:40921222

Note: This product is for in vitro research use only and is not intended for use in humans or animals.