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www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 600-101-ML8

BMAL1 Antibody

Overview

Description:	Anti-BMAL1 (GOAT) Antibody - 600-101-ML8
Item No.:	600-101-ML8
Size:	100 µg
Applications:	IF, WB
Reactivity:	Human, Mouse
Host Species:	Goat

Product Details

Background:	Arntl (Aryl Hydrocarbon Receptor Nuclear Translocator Like), also known as Bmal1, 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, Angelman Syndrome and altered circadian rhythm. Anti-Bmal1 Antibody is useful for researchers interested in Neuroscience research.
Synonyms:	Goat Anti-Aryl hydrocarbon receptor nuclear translocator-like protein 1 Antibody, Goat Anti-Bmal1 Antibody, Arnt3, Brain and muscle ARNT-like 1
Host Species:	Goat
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ARNTL
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-BMAL1 antibody was prepared from whole goat serum produced by repeated immunizations with a synthetic peptide corresponding to a N-terminal portion of human Bmal1 conjugated to Keyhole Limpet Hemocyanin (KLH).
Purity/Specificity:	This affinity purified antibody is directed against human Bmal1. This product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross-reactivity with the antigen based on 100% homology with the immunizing sequence to mouse, rat, golden hamster, horse, gallus gallus, Pongo abelii, Tyto alba, and Nannospalax galili.
Relevant Links:	• UniProtKB - O00327 • NBCI - NP_001025443.1 • GeneID - 406 • UniProtKB - Q9WTL8

Application Details

Tested Applications:	IF, WB
Application Note:	Anti-BMAL1 Antibody has been tested in WB and IF. Expect a band at ~67-69 kDa in western blot using appropriate lysates. Positive control used: HEK293T and Mouse Brain whole cell lysates in WB, and HeLa cells in IF.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000-1:50,000
IF:	15 µg/ml
WB:	1:1,000
Other:	User Optimized

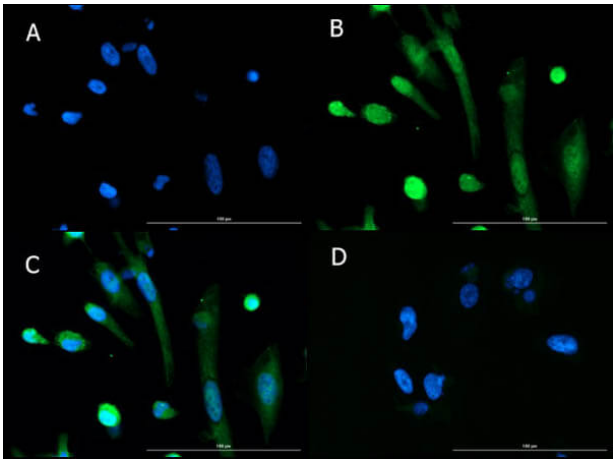
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.92 mg/ml by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

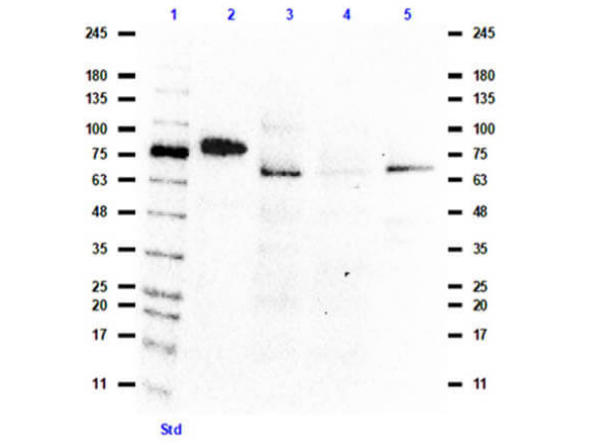
Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Immunofluorescence Microscopy
Immunofluorescence of Goat anti-BMAL1 Antibody. Cell Line: HeLa Cells. Fixative: 4%PFA. Permeabilization: 0.3% Triton X-100. Primary Antibody: Anti-BMAL1 at 15µg/mL overnight at 2-8°C. Secondary antibody: Donkey Anti-Goat IgG DyLight™488 (p/n 605-741-125) at 15µg/mL at RT for 1 hr. Nuclear Counterstain: DAPI. Image Staining: (A) DAPI. (B) Anit-BMAL1 + secondary. (C) merge A+B. (D) secondary only.



Western Blot
Western Blot of Goat Anti-BMAL1 Antibody. Lane 1: Opal PreStained Molecular Weight Marker (p/n MB-210-0500). Lane 2: BMAL1/ARNTL HEK293T OverExpressing Lysate c-myc/DDK tag* [+]. Lane 3: HEK293T empty vector lysate [+]. Lane 4: NIH3T3 Lysate (p/n W10-000-358). Lane 5: Mouse Brain Lysate (p/n W10-000-T004). Primary Antibody: Anti-BMAL1 at 1:1000 overnight at 2-8°C. Secondary Antibody: Donkey Anti-Goat IgG HRP (p/n 605-703-125) at 1:40,000 for 30 min at RT. Buffer: 5% BLOTTO (p/n B501-0500). Predicted/observed: overexpressing 76kDa, endogenous ~67 -69kDa.

Disclaimer

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