

## BMAL1 (PT0696R) PT® Rabbit mAb

CatalogNo: YM8505 **Recombinant** 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, IHC, IF, IP, ELISA

#### MW

- 69kD (Calculated)  
78kD (Observed)

#### Isotype

- IgG, Kappa

### Recommended Dilution Ratios

IHC 1:200-1:1000

WB 1:2000-1:10000

IF 1:200-1:1000

ELISA 1:5000-1:20000

IP 1:50-1:200

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

### Basic Information

**Clonality** Monoclonal

**Clone Number** PT0696R

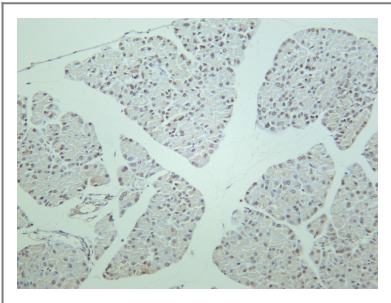
### Immunogen Information

**Specificity** Endogenous

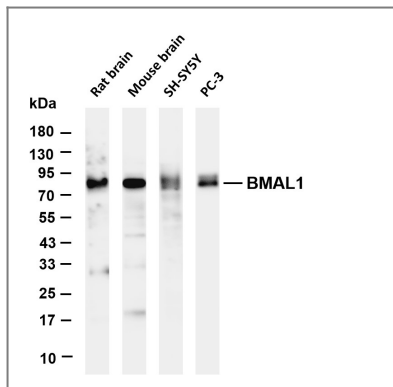
## Target Information

Gene name	ARNTL		
Protein Name	Aryl hydrocarbon receptor nuclear translocator-like protein 1		
	Organism	Gene ID	UniProt ID
	Human	<a href="#">406</a> ;	<a href="#">O00327</a> ;
	Mouse	<a href="#">11865</a> ;	<a href="#">Q9WTL8</a> ;
	Rat	<a href="#">29657</a> ;	<a href="#">Q9EPW1</a> ;
Cellular Localization	Nucleus		
Tissue specificity	Hair follicles (at protein level). Highly expressed in the adult brain, skeletal muscle and heart.		
Function	Alternative products:Additional isoforms seem to exist,Function:ARNTL-CLOCK heterodimers activate E-box element (3'-CACGTG-5') transcription of a number of proteins of the circadian clock. This transcription is inhibited in a feedback loop by PER, and also by CRY proteins.,miscellaneous:CLOCK-ARNTL double mutations within the PAS domains result in synergistic desensitization to high levels of CRY on repression of CLOCK-ARNTL transcriptional activity of PER1 and, disrupt circadian rhythmicity.,PTM:Acetylated on Lys-538 upon dimerization with CLOCK. Acetylation facilitates CRY1-mediated repression.,PTM:Phosphorylated upon dimerization with CLOCK.,PTM:Sumoylated on Lys-259 upon dimerization with CLOCK.,similarity:Contains 1 basic helix-loop-helix (bHLH) domain.,similarity:Contains 1 PAC (PAS-associated C-terminal) domain.,similarity:Contains 2 PAS (PER-ARNT-SIM) domains.,subunit:Component of the circadian clock oscillator which includes the CRY proteins, CLOCK or NPAS2, ARNTL or ARNTL2, CSNK1D and/or CSNK1E, TIMELESS and the PER proteins. Efficient DNA binding requires dimerization with another bHLH protein. Heterodimerization with CLOCK is required for E-box-dependent transactivation, for CLOCK nuclear translocation and degradation, and, for phosphorylation of both CLOCK and ARNTL. Interaction with PER and CRY proteins requires translocation to the nucleus. Interaction of the CLOCK-ARNTL heterodimer with PER or CRY inhibits transcription activation. Interacts with HSP90; with AHR in vitro, but not in vivo.,tissue specificity:Highly expressed in the adult brain, skeletal muscle and heart.,		

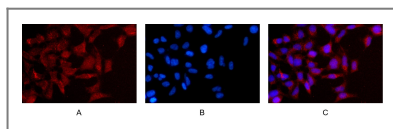
## Validation Data



Rat pancreas was stained with anti-BMAL1 rabbit antibody



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-BMAL1 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Rat brain Lane 2: Mouse brain Lane 3: SH-SY5Y Lane 4: PC-3 Predicted band size: 69kDa Observed band size: 78kDa



Immunofluorescence analysis of HEK293. Picture A: BMAL1 antibody (red). Picture B: DAPI (blue). Picture C: Merge of A+B

## Contact information

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**BMAL1 (PT0696R)**  
**PT® Rabbit mAb**

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