

For Research Use Only

BMAL1 Polyclonal antibody

Catalog Number: 14268-1-AP

Featured Product

69 Publications



Basic Information

Catalog Number:

14268-1-AP

Concentration:

550 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5586

GenBank Accession Number:

BC041129

GeneID (NCBI):

406

UNIPROT ID:

O00327

Full Name:

aryl hydrocarbon receptor nuclear translocator-like

Calculated MW:

69 kDa

Observed MW:

69-75 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:10000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP, ChIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Positive Controls:

WB : HT-1080 cells, 3T3-L1 cells, HeLa cells, MCF-7 cells, NCI-H1299 cells, mouse liver tissue, rat liver tissue, SH-SY5Y cells

IP : HeLa cells,

IF/ICC : U-87 MG cells,

Background Information

BMAL1, a basic helix-loop-helices with Per-Arnt-Sim (PAS) domain transcription factor, is one of components that has core clock function in mammals. It form a heterodimer with CLOCK, and induce the transcription of target genes by binding to E-box elements within their promoter regions. And this transcription is inhibited in a feedback loop by PER, and also by CRY proteins. Also BMAL1 is a key player in the regulation of metabolism, playing a role in adipogenesis and in the control of glucose and triglycerides levels. Due to phosphorylation modification, BMAL1 can be detected as a band in the range of 70-80 kda (PMID: 14750952).

Notable Publications

Author	Pubmed ID	Journal	Application
Tingling Zou	36063856	Chem Biol Interact	WB, IHC
Min Chen	36216079	Biochem Pharmacol	WB
Lingling Tang	36505412	Front Immunol	WB, IHC

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

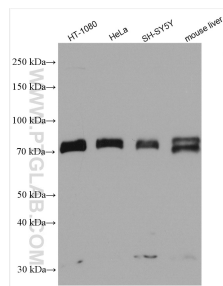
T: 4006900926

E: Proteintech-CN@ptglab.com

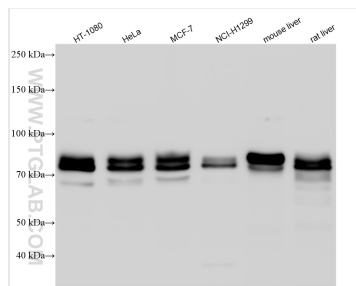
W: ptgcn.com

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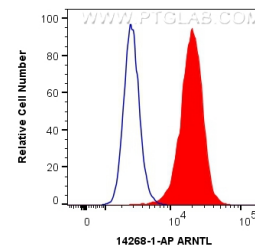
Selected Validation Data



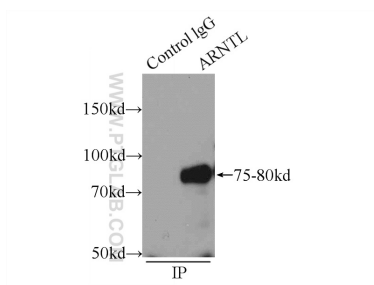
Various lysates were subjected to SDS PAGE followed by western blot with 14268-1-AP (BMAL1 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



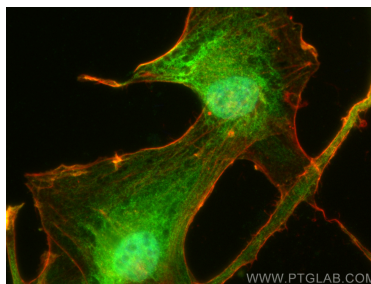
Various lysates were subjected to SDS PAGE followed by western blot with 14268-1-AP (BMAL1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



1X10⁶ HeLa cells were intracellularly stained with 0.4 ug Anti-Human ARNTL (14268-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



IP result of anti-BMAL1 (IP:14268-1-AP, 4ug; Detection:14268-1-AP 1:300) with HeLa cells lysate 1600ug.



Immunofluorescent analysis of (4% PFA) fixed U-87 MG cells using BMAL1 antibody (14268-1-AP) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).