

ARNTL Polyclonal antibody

Catalog Number: 14268-1-AP

Featured Product

47 Publications

Basic Information

Catalog Number:

14268-1-AP

Size:

150ul, Concentration: 550 µg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5586

GenBank Accession Number:

BC041129

GeneID (NCBI):

406

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 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

Applications

Tested Applications:

FC, IHC, IP, WB, ELISA

Cited Applications:

ChIP, CoIP, IF, IHC, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, rat, mouse

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,

IHC: human prostate cancer tissue, human colon cancer tissue

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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.

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

*** 20ul sizes contain 0.1% BSA

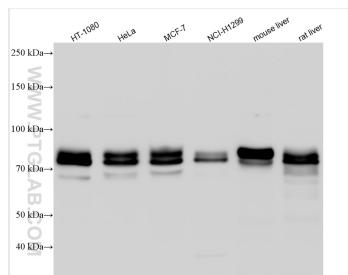
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

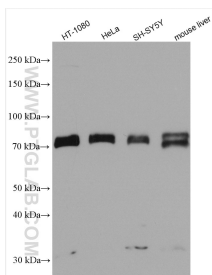
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

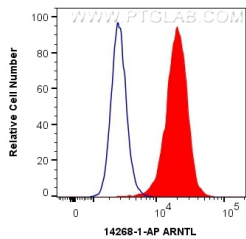
Selected Validation Data



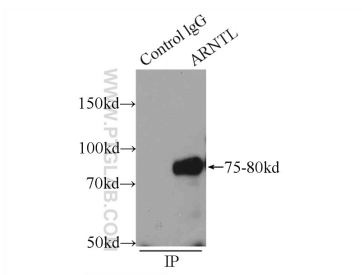
Various lysates were subjected to SDS PAGE followed by western blot with 14268-1-AP (ARNTL antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



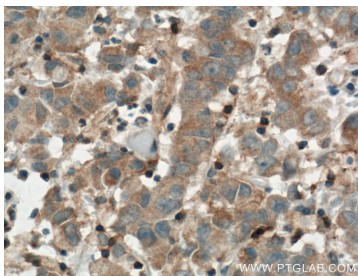
Various lysates were subjected to SDS PAGE followed by western blot with 14268-1-AP (ARNTL antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



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



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 14268-1-AP (ARNTL Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).