

For Research Use Only

Cryptochrome 1 Polyclonal antibody



Catalog Number: 13474-1-AP

Featured Product

24 Publications

Basic Information

Catalog Number: 13474-1-AP	GenBank Accession Number: BC030519	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 550 µg/ml by Nanodrop;	GeneID (NCBI): 1407	Recommended Dilutions: WB 1:1000-1:5000 IHC 1:50-1:500 IF 1:10-1:100
Source: Rabbit	Full Name: cryptochrome 1 (photolyase-like)	
Isotype: IgG	Calculated MW: 586 aa, 66 kDa	
Immunogen Catalog Number: AG4270	Observed MW: 60-66 kDa	

Applications

Tested Applications:
FC, IF, IHC, WB, ELISA

Cited Applications:
CoIP, IF, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, mouse

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

Positive Controls:

WB: HeLa cells, Y79 cells, mouse liver tissue, rat liver tissue

IHC: mouse brain tissue, human breast cancer tissue

IF: HeLa cells, MCF-7 cells

Background Information

Cryptochrome circadian clock 1 (CRY1) is a flavin adenine dinucleotide-binding protein with MW of 66 kDa. CRY1 is a key component of the circadian core oscillator complex, which regulates the circadian clock. CRY1 predominantly displays evening-time expression and serves as a strong repressor of morning-time elements (E box/E-prime box) when bound to the BMAL1 (ARNTL; 602550)/CLOCK (601851) complex (PubMed: 21236481). This antibody can recognize CRY1 and CRY2 due to the high homology.

Notable Publications

Author	Pubmed ID	Journal	Application
Wen-Ya Huang	28986813	Chin J Integr Med	WB
Guohua Ji	31585206	Free Radic Biol Med	WB
Pieterjan Dierickx	28536247	EMBO Rep	WB

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

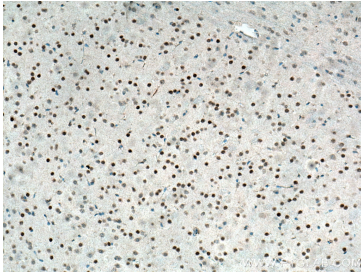
For technical support and original validation data for this product please contact:

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

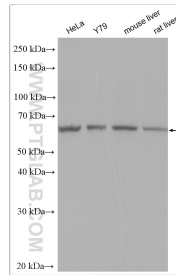
E: proteintech@ptglab.com
W: ptglab.com

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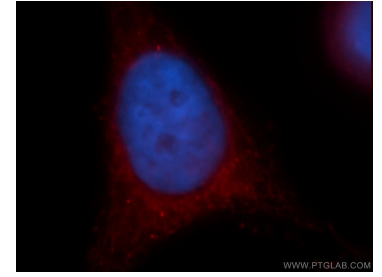
Selected Validation Data



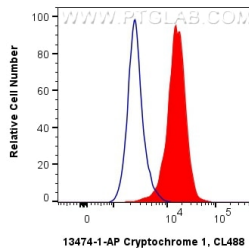
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 13474-1-AP (Cryptochrome 1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 13474-1-AP (Cryptochrome 1 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of HeLa cells, using CRY1 antibody 13474-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



1X10⁶ HeLa cells were intracellularly stained with 0.4 ug Anti-Human Cryptochrome 1 (13474-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP, Clone:) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).