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Datasheet for ABIN390079 anti-CRY1 antibody (C-Term)

2 Images

1 Publication



Overview

Quantity:	400 µL
Target:	CRY1
Binding Specificity:	AA 556-586, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CRY1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This Cry1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 556-586 amino acids from the C-terminal region of human Cry1.
Clone:	RB1844
Isotype:	Ig Fraction
Predicted Reactivity:	Pr
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Target Details	
Target:	CRY1

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Target Details	
Alternative Name:	Cry1 (CRY1 Products)
Background:	Various biochemical, physiological and behavioural processes display circadian rhythms
	controlled by an internal biological clock. The central ?gears?driving this clock appear to be
	composed of an autoregulatory transcription/posttranslation-based feedback loop.
	Cryptochrome 1 (CRY1) and 2 (CRY2) are DNA-binding flavoproteins that bear some homology
	to blue-light receptors and photolyases. In Drosophila, CRY is a photoreceptor for the circadian
	clock where it binds to the clock component TIM in a light-dependent fashion and blocks its
	function. Mammalian CRY1 and CRY2 function via light-independent interactions with circadian
	genes CLOCK and BMAL1, as well as with PER1, PER2, and TIM. They seem to act as light-
	independent components of the circadian clock and likely regulate Per1 transcriptional cycling
	via interactions with both the activator and its feedback inhibitors. Mutant mice not expressing
	the Cry1 or Cry2 protein display accelerated and delayed periodicity of locomotor activity,
	respectively. It appears that the combination of both proteins working together is essential to
	synchronize the organism to circadian phases. A critical balance between Cry1 and Cry2 is
	required for proper clock function, in complete darkness, double-mutant mice present with
	instantaneous arrhythmicity, indicating the absence of an internal circadian clock.
Molecular Weight:	66395
Gene ID:	1407
NCBI Accession:	NP_004066
UniProt:	Q16526
Pathways:	Response to Water Deprivation, Proton Transport
Application Details	
Application Notes:	WB: 1:1000. IHC-P: 1:50~100
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide

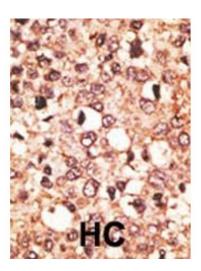
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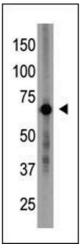
This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Precaution of Use:

Handling	
	should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months
Publications	
Product cited in:	Wang, Wang, Liu, Liu, Tay, Walsh, Yang, Wu: "CRISPR/Cas9 mediated genome editing of Helicoverpa armigera with mutations of an ABC transporter gene HaABCA2 confers resistance to Bacillus thuringiensis Cry2A toxins." in: Insect biochemistry and molecular biology , Vol. 87, pp. 147-153, (2017) (PubMed).

Images





Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated. BC = breast carcinoma, HC = hepatocarcinoma.

Western Blotting

Image 2. The anti-Cry1 N-term Pab (ABIN390079 and ABIN2840599) is used in Western blot to detect Cry1 in placenta tissue lysate.

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