

Datasheet for ABIN2788200  
**anti-CRY1 antibody (N-Term)**[Go to Product page](#)

1 Image

1 Publication

## Overview

Quantity:	100 µL
Target:	CRY1
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Cow, Rabbit, Horse, Sheep, Dog, Guinea Pig, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CRY1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

## Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human CRY1
Sequence:	KRFQTLISKM EPLEIPVETI TSEVIEKCTT PLSDDHDEKY GVPSLEELGF
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 93%, Rat: 100%, Sheep: 100%, Zebrafish: 93%
Characteristics:	This is a rabbit polyclonal antibody against CRY1. It was validated on Western Blot.
Purification:	Affinity Purified

## Target Details

Target:	CRY1
Alternative Name:	CRY1 ( <a href="#">CRY1 Products</a> )

## Target Details

Background:	<p>CRY1 is the blue light-dependent regulator of the circadian feedback loop. CRY1 inhibits CLOCK NPAS2-ARNTL E box-mediated transcription. CRY1 acts, in conjunction with CRY2, in maintaining period length and circadian rhythmicity. CRY1 has no photolyase activity. CRY1 is capable of translocating circadian clock core proteins such as PER proteins to the nucleus. CRY1 may inhibit CLOCK NPAS2-ARNTL transcriptional activity through stabilizing the unphosphorylated form of ARNTL.</p> <p>Alias Symbols: PHLL1</p> <p>Protein Interaction Partner: PER2, FBXL3, FBXL21, PLSCR1, BTRC, CUL1, SKP1, CSNK1E, LTBP4, UBC, SNRPD3, GRN, USP2, Timeless, Cry1, KRTAP4-12, PER3, MDFI, CBLB, ARNTL, PER1, TRAF2,</p> <p>Protein Size: 586</p>
Molecular Weight:	64 kDa
Gene ID:	1407
NCBI Accession:	<a href="#">NM_004075</a> , <a href="#">NP_004066</a>
UniProt:	<a href="#">Q16526</a>
Pathways:	<a href="#">Response to Water Deprivation</a> , <a href="#">Proton Transport</a>

## Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 586 AA
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.


Handling

Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in:	Kenigsberg, Lima, Maghen, Wyse, Lackan, Cheung, Tsang, Librach: "The elusive MAESTRO gene: Its human reproductive tissue-specific expression pattern." in: <b>PLoS ONE</b> , Vol. 12, Issue 4, pp. e0174873, (2017) ( <a href="#">PubMed</a> ).
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Images



90 kDa\_\_  
65 kDa\_\_  
40 kDa\_\_  
29 kDa\_\_  
22 kDa\_\_

A B

**Anti-CRY1 Western Blot & Peptide Block Validation**

Lot Number: QC30703

Lysate: Hela cell

Lane A: Primary Antibody  
Lane B: Primary Antibody + Blocking Peptide

Primary Antibody Concentration: 1.0µg/ml  
Peptide Concentration: 5.0µg/ml  
Lysate Quantity: 25µg/lane  
Gel Concentration: 12%

**Western Blotting**

**Image 1.** Host: Rabbit

Target Name: CRY1

Sample Tissue: Hela Whole cell

Lane A: Primary Antibody Lane B: Primary Antibody + Blocking Peptide

Primary Antibody Concentration: 1 µg/mL Peptide Concentration: 5 µg/mL Lysate Quantity: 41 µg/laneGel Concentration: 12 %