

## Rabbit Cry1 Polyclonal Antibody | anti-CRY1 antibody

Cry1 Antibody (C-term)

| CATALOG # | HOST   | REACTIVITY                           | APPLICATIONS                              |
|-----------|--------|--------------------------------------|-------------------------------------------|
| AAA287325 | Rabbit | Human (Predicted Reactivity: Monkey) | Immunohistochemistry, ELISA, Western Blot |

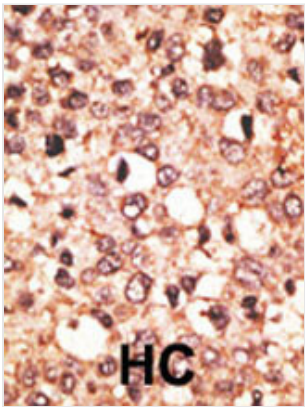
### PRODUCT SYNONYMS

Cry1; Polyclonal Antibody; Cry1 Antibody (C-term); Cryptochrome-1; CRY1; PHLL1; anti-CRY1 antibody

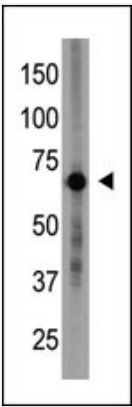
### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                           |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                    |
| Reactivity                                     | Human (Predicted Reactivity: Monkey)                                                                                                                                                      |
| Clonality                                      | Polyclonal                                                                                                                                                                                |
| Isotype                                        | Rabbit Ig                                                                                                                                                                                 |
| Specificity                                    | 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.                      |
| Purity/Purification                            | Purified Rabbit Polyclonal Antibody (Pab)                                                                                                                                                 |
| Form/Format                                    | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS. |
| Concentration                                  | Vial Concentration: 2 (varies by lot)                                                                                                                                                     |
| Sequence Positions                             | 556-586                                                                                                                                                                                   |
| Sequence Length                                | 586                                                                                                                                                                                       |
| Applicable Applications for anti-CRY1 antibody | IHC (Immunohistochemistry), ELISA, WB (Western Blot)                                                                                                                                      |
| Antigen Type                                   | Synthetic Peptide                                                                                                                                                                         |
| Antigen Source                                 | HUMAN                                                                                                                                                                                     |
| Preparation and Storage                        | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.                                    |

IMAGES



**IHC (Immunohiostchemistry)**  
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.



**WB (Western Blot)**  
The anti-Cry1 N-term Pab is used in Western blot to detect Cry1 in placenta tissue lysate.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CRY1 antibody | 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. |
| Product Categories/Family for anti-CRY1 antibody   | Cardiovascular; Neuroscience                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| References                                         | Griffin, E.A. Jr., et al., Science 286(5440):768-771 (1999).<br>van der Horst, G.T., et al., Nature 398(6728):627-630 (1999).<br>Kobayashi, K., et al., Nucleic Acids Res. 26(22):5086-5092 (1998).<br>Hsu, D.S., et al., Biochemistry 35(44):13871-13877 (1996).<br>van der Spek, P.J., et al., Genomics 37(2):177-182 (1996).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

NCBI AND UNIPROT INFORMATION

|                                  |                                |
|----------------------------------|--------------------------------|
| NCBI GI #                        | 4758072                        |
| NCBI GeneID                      | 1407                           |
| NCBI Accession #                 | NP_004066.1                    |
| NCBI GenBank Nucleotide #        | NM_004075.4                    |
| UniProt Accession #              | Q16526                         |
| Molecular Weight                 | 66395                          |
| NCBI Official Full Name          | cryptochrome-1                 |
| NCBI Official Synonym Full Names | cryptochrome circadian clock 1 |

|                               |                |
|-------------------------------|----------------|
| NCBI Official Symbol          | CRY1           |
| NCBI Official Synonym Symbols | PHLL1          |
| NCBI Protein Information      | cryptochrome-1 |
| UniProt Protein Name          | Cryptochrome-1 |
| UniProt Gene Name             | <b>CRY1</b>    |
| UniProt Synonym Gene Names    | PHLL1          |
| UniProt Entry Name            | CRY1_HUMAN     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/cry1-antibody-immunohistochemistry-western-blot-elisa/287325>