CRY1 Rabbit pAb

CatalogNo: YN0189 **Orthogonal Validated**

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,ELISA

MW
- 64kD (Observed)

Isotype
- IgG

Recommended Dilution Ratios

WB 1:500-2000
ELISA 1:5000-20000

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthesized peptide derived from human protein . at AA range: 120-200
Specificity	CRY1 Polyclonal Antibody detects endogenous levels of protein.

Target Information

Gene name	CRY1 PHLL1

Protein Name Cryptochrome-1

Organism	Gene ID	UniProt ID
Human	1407;	Q16526;
Mouse		P97784;
Rat		Q32Q86;

Cellular Localization Cytoplasm. Nucleus . Translocated to the nucleus through interaction with other clock proteins such as PER2 or ARNTL/BMAL1. .

Tissue specificity Brain,Fibroblast,Testis,

Function cofactor:Binds 1 5,10-methenyltetrahydrofolate non-covalently per subunit.,cofactor:Binds 1 FAD per subunit.,Function:Blue light-dependent regulator of the circadian feedback loop. Inhibits CLOCK|NPAS2-ARNTL E box-mediated transcription. Acts, in conjunction with CRY2, in maintaining period length and circadian rhythmicity. Has no photolyase activity. Capable of translocating circadian clock core proteins such as PER proteins to the nucleus. May inhibit CLOCK|NPAS2-ARNTL transcriptional activity through stabilizing the unphosphorylated form of ARNTL.,induction:Expression is regulated by light and circadian rhythms. Peak expression in the suprachiasma nucleus (SCN) and eye at the day/night transition (CT12). Levels decrease with ARNTL-CLOCK inhibition as part of the autoregulatory feedback loop.,online information:Cryptochrome entry,PTM:Phosphorylation on Ser-247 by MAPK is important for the inhibition of CLOCK-ARNTL-mediated transcriptional activity. Phosphorylation by CSNK1E requires interaction with PER1 or PER2.,similarity:Belongs to the DNA photolyase class-1 family.,similarity:Contains 1 DNA photolyase domain.,subcellular location:Translocated to the nucleus through interaction with other Clock proteins such as PER2 or ARNTL.,subunit:Component of the circadian core oscillator, which includes the CRY proteins, CLOCK or NPAS2, ARNTL or ARNTL2, CSNK1D and/or CSNK1E, TIMELESS, and the PER proteins. Interacts directly with TIMELESS and the PER proteins. Interacts directly with PER1 and PER2 C-terminal domains. Interaction with PER2 inhibits its ubiquitination and vice versa. Binds MAPK.,

Validation Data

Contact information

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Please scan the QR code to access additional product information:
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