

CRY2 rabbit pAb

Catalog No :	YT6482
Reactivity :	Human;Mouse;Rat
Applications :	WB
Target :	CRY2
Fields :	>>Circadian rhythm
Gene Name :	CRY2 KIAA0658
Protein Name :	CRY2
Human Gene Id :	1408
Human Swiss Prot No :	Q49AN0
Mouse Gene Id :	12953
Mouse Swiss Prot No :	Q9R194
Rat Gene Id :	170917
Rat Swiss Prot No :	Q923I8
Immunogen :	Synthesized peptide derived from human CRY2 AA range: 181-231
Specificity :	This antibody detects endogenous levels of CRY2 at Human/Mouse/Rat
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1[?]500-2000
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 65kD

Background : This gene encodes a flavin adenine dinucleotide-binding protein that is a key component of the circadian core oscillator complex, which regulates the circadian clock. This gene is upregulated by CLOCK/ARNTL heterodimers but then represses this upregulation in a feedback loop using PER/CRY heterodimers to interact with CLOCK/ARNTL. Polymorphisms in this gene have been associated with altered sleep patterns. The encoded protein is widely conserved across plants and animals. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2014],

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., online information: Cryptochrome entry, PTM: Phosphorylation on Ser-266 by MAPK is important for the inhibition of CLOCK-ARNTL-mediated transcriptional activity. Phosphorylation by CSKNE requires interaction with PER1 or PER2., similarity: Belongs to the DNA photolyase class-1 family., similarity: Contains 1 DNA photolyase domain., subcellular locat

Subcellular Location : Cytoplasm . Nucleus . Translocated to the nucleus through interaction with other Clock proteins such as PER2 or ARNTL.

Expression : Expressed in all tissues examined including fetal brain, fibroblasts, heart, brain, placenta, lung, liver, skeletal muscle, kidney, pancreas, spleen, thymus, prostate, testis, ovary, small intestine, colon and leukocytes. Highest levels in heart and skeletal muscle.

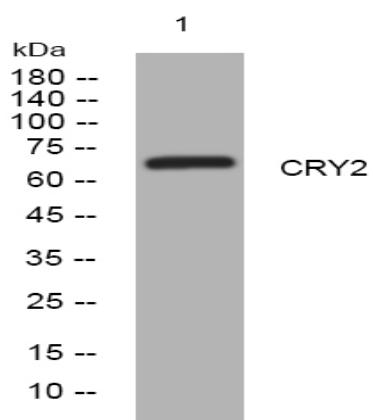
Sort : 4597

No4 : 1

Host : Rabbit

Modifications : Unmodified

Products Images



Western blot analysis of lysates from U2OS cells, primary antibody was diluted at 1:1000, 4° over night