

Product datasheet for **TA392611S**

Cryptochrome I (CRY1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:1000~1:2000
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to Human CRY1.
Specificity:	CRY1 polyclonal antibody detects endogenous levels of CRY1 protein.
Formulation:	Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2
Concentration:	1mg/ml
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Stability:	1 year
Predicted Protein Size:	~ 68 kDa
Gene Name:	cryptochrome circadian clock 1
Database Link:	Entrez Gene 1407 Human Q16526



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Background:

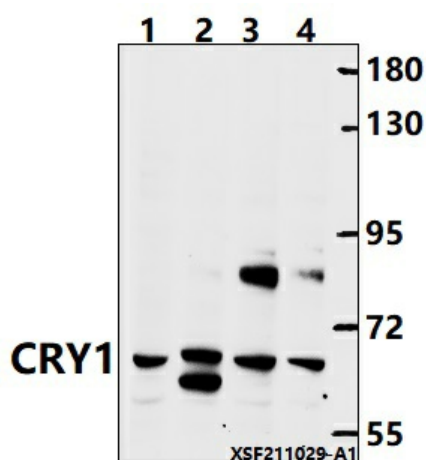
Circadian Clocks are biological timepieces that regulate hormonal rhythms, sleep cycles and feeding behaviors. These rhythms are generated in the suprachiasmatic nucleus (SCN), a cell-autonomous circadian oscillator located within the brain that is synchronized with the environment by light. A number of transcription factors, including Clock and BMAL1, are molecular components of the SCN that induce the expression of proteins involved in light/dark cycle entrainment, which include Per1 and Per2. Tim, for timeless, generates a negative feedback loop that regulates the activity of Clock by suppressing the expression of Clock target genes. Tim forms heterodimers with Per1 and Per2 that bind Clock and block the activation of Clock-BMAL1 dimers to repress Per gene expression. Additionally, the CRY proteins, which are cryptochrome photoreceptors for the circadian Clock, function as light-independent inhibitors of the circadian Clock. CRY1 and CRY2 negatively regulate SCN components by associating with the activators Clock-BMAL1, and also with the various feedback inhibitors Per1, Per2 and Tim.

Synonyms:

CRY1; Cryptochrome-1; PHLL1

Note:

For research use only, not for use in diagnostic procedure.

Product images:

Western blot (WB) analysis of CRY1 polyclonal antibody at 1:1000 dilution Lane1:HepG2 whole cell lysate(40ug) Lane2:HEK293T whole cell lysate(40ug) Lane3:A549 whole cell lysate(40ug) Lane4:MCF-7 whole cell lysate(40ug)