

For Research Use Only

Cryptochrome 1 Recombinant antibody

Catalog Number: 83602-5-RR



Basic Information

Catalog Number: 83602-5-RR	GenBank Accession Number: BC030519	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 1407	CloneNo.: 240520B12
Source: Rabbit	UNIPROT ID: Q16526	Recommended Dilutions: WB 1:1000-1:8000
Isotype: IgG	Full Name: cryptochrome 1 (photolyase-like)	
Immunogen Catalog Number: AG4270	Calculated MW: 586 aa, 66 kDa	
	Observed MW: 60-66 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : HeLa cells, Y79 cells, HCT 116 cells
Species Specificity: human	

Background Information

Cryptochrome circadian clock 1 (CRY1) is a flavin adenine dinucleotide-binding protein with MW of 66 kDa. CRY1 is a key component of the circadian core oscillator complex, which regulates the circadian clock. CRY1 predominantly displays evening-time expression and serves as a strong repressor of morning-time elements (E box/E-prime box) when bound to the BMAL1 (ARNTL; 602550)/CLOCK (601851) complex (PubMed: 21236481).

Storage

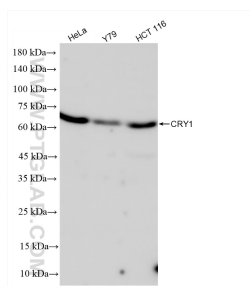
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

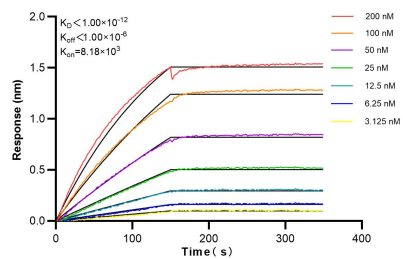
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83602-5-RR (CRY1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 83602-5-RR against Human Cryptochrome 1 were performed. The affinity constant is below 1 pM.