

For Research Use Only

CLOCK Polyclonal antibody

Catalog Number: 30680-1-AP



Basic Information

Catalog Number: 30680-1-AP	GenBank Accession Number: BC041878	Purification Method: Antigen affinity purification
Size: 300 µg/ml	GeneID (NCBI): 9575	Recommended Dilutions: IHC 1:50-1:500 IF/ICC 1:200-1:800
Source: Rabbit	UNIPROT ID: O15516	
Isotype: IgG	Full Name: clock homolog (mouse)	
Immunogen Catalog Number: AG33370	Calculated MW: 846 aa, 95 kDa	

Applications

Tested Applications: IF/ICC, IHC, ELISA	Positive Controls: IHC : mouse liver tissue, IF/ICC : HeLa cells,
Species Specificity: Human, mouse	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

Circadian locomoter output cycles protein kaput (CLOCK), also named as BHLHE8 or KIAA0334, is a 846 amino acid protein, which contains one bHLH domain, one PAC domain, and two PAS domains. CLOCK localizes in the nucleus and cytoplasm. CLOCK is expressed in all tissues examined including spleen, thymus, prostate, testis, ovary, small intestine, colon, leukocytes, heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. ARNTL/2-CLOCK heterodimers activate E-box element (5'-CACGTG-3') transcription of a number of proteins of the circadian clock, such as PER1 and PER2. western blot. Our result is similar to the result of reseach paper (PMID: 30683868).

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

For technical support and original validation data for this product please contact:

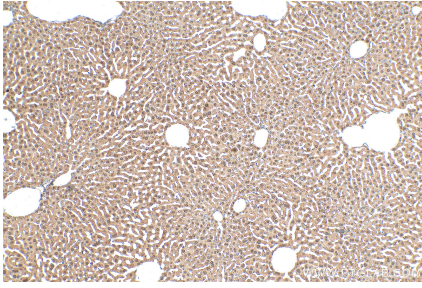
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E: Proteintech-CN@ptglab.com

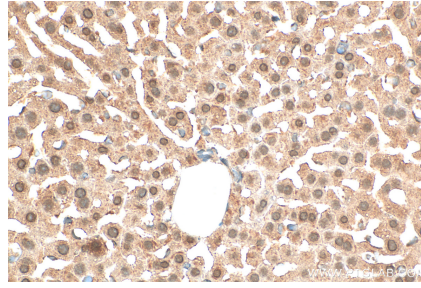
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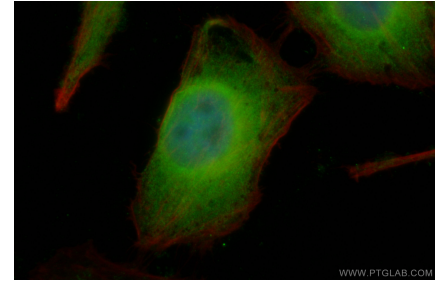
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 30680-1-AP (CLOCK antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 30680-1-AP (CLOCK antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CLOCK antibody (30680-1-AP) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).