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CIART Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10380a

Specification

CIART Antibody (N-term) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	Q8N365
Other Accession	NP_653298.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**18-47**

CIART Antibody (N-term) - Additional Information

Gene ID 148523

Other Names
Circadian-associated transcriptional repressor, ChIP-derived repressor of network oscillator, Chrono, Computationally highlighted repressor of the network oscillator, CIART, C1orf51

Target/Specificity
This C1orf51 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 18-47 amino acids from the N-terminal region of human C1orf51.

Dilution
WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
CIART Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CIART Antibody (N-term) - Protein Information

Name CIART

Synonyms C1orf51

Function Transcriptional repressor which forms a negative regulatory component of the circadian clock and acts independently of the circadian transcriptional repressors: CRY1, CRY2 and BHLHE41. In a histone deacetylase-dependent manner represses the transcriptional activator activity of the CLOCK-BMAL1 heterodimer. Abrogates the interaction of BMAL1 with the transcriptional coactivator CREBBP and can repress the histone acetyl-transferase activity of the CLOCK-BMAL1 heterodimer, reducing histone acetylation of its target genes. Rhythmically binds the E-box elements (5'-CACGTG-3') on circadian gene promoters and its occupancy shows circadian oscillation antiphasic to BMAL1. Interacts with the glucocorticoid receptor (NR3C1) and contributes to the repressive function in the glucocorticoid response (By similarity).

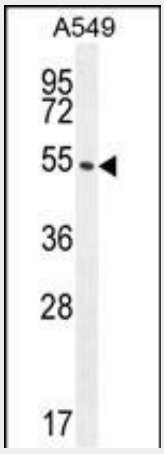
Cellular Location
Nucleus. Nucleus, PML body. Note=Co-localizes with the CLOCK-BMAL1 heterodimer in the PML body.

CIART Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CIART Antibody (N-term) - Images



C1orf51 Antibody (N-term) (Cat. #AP10380a) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the C1orf51 antibody detected the C1orf51 protein (arrow).

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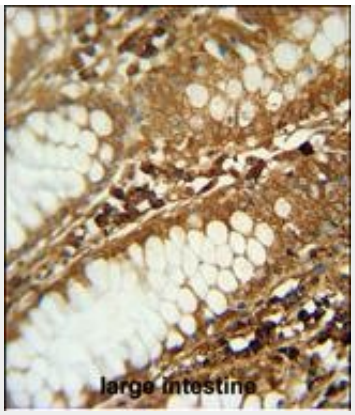
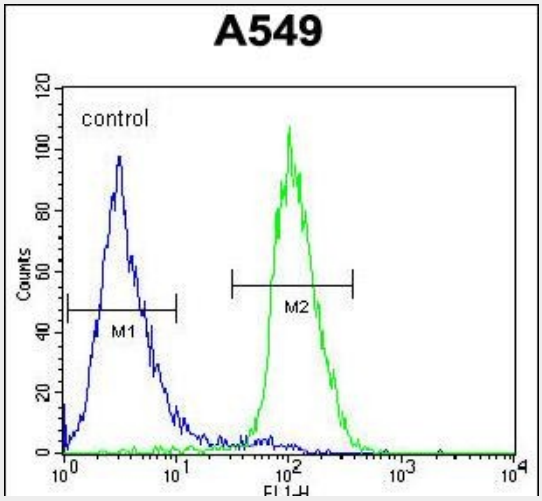


C1orf51 antibody (N-term) (Cat. #AP10380a) immunohistochemistry analysis in formalin fixed and paraffin embedded human large intestine followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the C1orf51 antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



C1orf51 Antibody (N-term) (Cat. #AP10380a) flow cytometric analysis of A549 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

CIART Antibody (N-term) - References

Lamesch, P., et al. Genomics 89(3):307-315(2007)