

Rabbit Anti-Cyclin C antibody

SL0282R

Product Name	Cyclin C
Chinese Name	周期素 C 抗体
Alias	CCNC; Cyclin-C; CycC; Cyclin C; hSRB11; SRB11 homolog; OTTHUMP00000016897; CCNC_HUMAN.
Research Area	Cell biology immunology Chromatin and nuclear signals Cyclin Epigenetics
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human, (predicted: Mouse, Rat,) IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	33kDa
Cellular localization	The nucleus
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human Cyclin C: 23-100/283
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed
Product	Cyclin C was originally identified by a genetic screen for human and Drosophila

Detail

cDNAs that complement a triple knock out of the CLN genes in *Saccharomyces cerevisiae*. Cyclin C is a nuclear protein present in a multiprotein complex. It interacts both in vitro and in vivo with cdk 8, a novel protein kinase of the cdk family. It is suggested that cyclin C and cdk 8 control RNA polymerase II function. Human cdk 8 cyclin C might be functionally associated with the mammalian transcription apparatus, perhaps involved in relaying growth regulatory signals.

Function:

Component of the Mediator complex, a coactivator involved in regulated gene transcription of nearly all RNA polymerase II-dependent genes. Mediator functions as a bridge to convey information from gene-specific regulatory proteins to the basal RNA polymerase II transcription machinery. Mediator is recruited to promoters by direct interactions with regulatory proteins and serves as a scaffold for the assembly of a functional preinitiation complex with RNA polymerase II and the general transcription factors. Binds to and activates cyclin-dependent kinase CDK8 that phosphorylates the CTD (C-terminal domain) of the large subunit of RNA polymerase II (RNAP II), which may inhibit the formation of a transcription initiation complex. [SUBUNIT] Component of the Mediator complex, which is composed of MED1, MED4, MED6, MED7, MED8, MED9, MED10, MED11, MED12, MED13, MED13L, MED14, MED15, MED16, MED17, MED18, MED19, MED20, MED21, MED22, MED23, MED24, MED25, MED26, MED27, MED29, MED30, MED31, CCNC, CDK8 and CDC2L6/CDK11. The MED12, MED13, CCNC and CDK8 subunits form a distinct module termed the CDK8 module. Mediator containing the CDK8 module is less active than Mediator lacking this module in supporting transcriptional activation. Individual preparations of the Mediator complex lacking one or more distinct subunits have been variously termed ARC, CRSP, DRIP, PC2, SMCC and TRAP. The cyclin/CDK pair formed by CCNC/CDK8 also associates with the large subunit of RNA polymerase II.

Subcellular Location:

Nucleus (Probable).

Tissue Specificity:

Highest levels in pancreas. High levels in heart, liver, skeletal muscle and kidney. Low levels in brain.

Similarity:

Belongs to the cyclin family. Cyclin C subfamily.
Contains 1 cyclin N-terminal domain.

SWISS:

P24863

Gene ID:

892

Database links:

[Entrez Gene: 892](#) Human

[Entrez Gene: 51813](#) Mouse

[Entrez Gene: 114839](#) Rat

[Omim: 123838](#) Human

[SwissProt: P24863](#) Human

[SwissProt: Q62447](#) Mouse

[SwissProt: P39947](#) Rat

[Unigene: 430646](#) Human

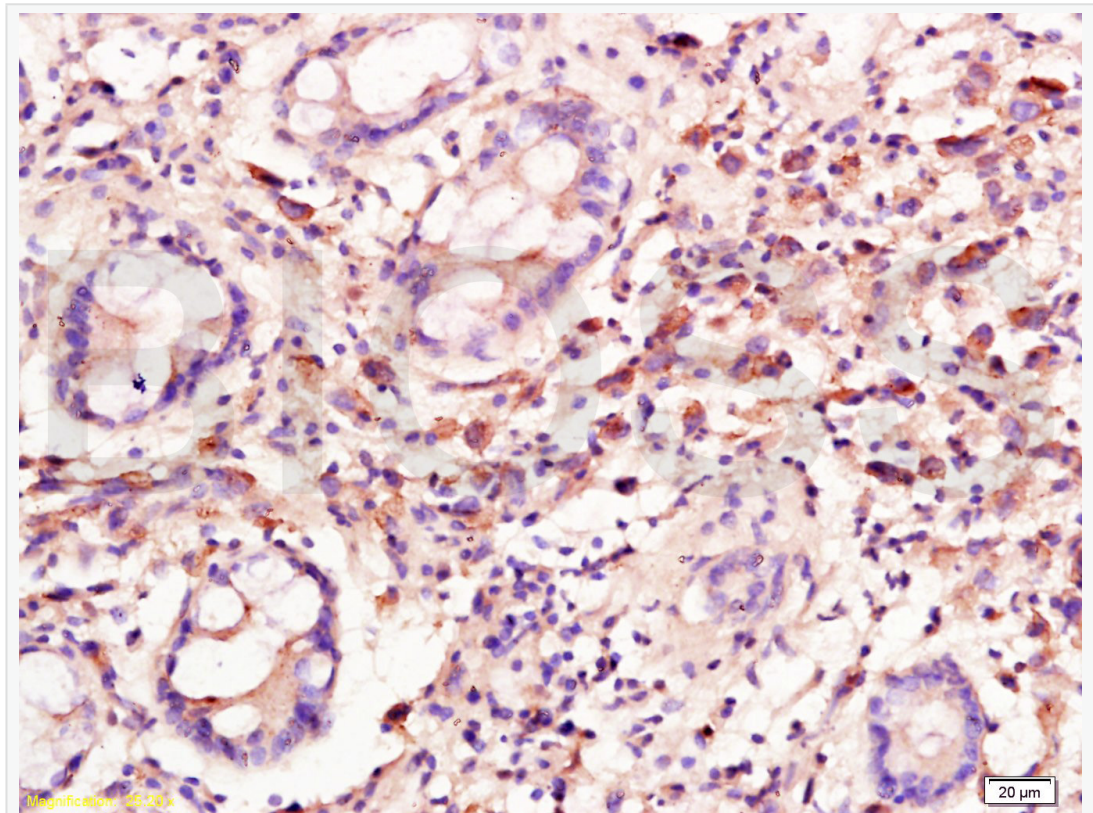
[Unigene: 278584](#) Mouse

[Unigene: 106758](#) Rat

周期素 C 属于高度保守的周期素家族。不同的周期素出现在不同的细胞增殖周期。能结合和激活 CDK 激酶。

周期素 C(Cyclin C)主要出现在 G1 期（第一间隙期（或生长期）（G1）：是在有丝分裂（M）和开始 DNA 合成（S）期之间的阶段；

**Product
Picture**



Tissue/cell: human colon carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-Cyclin C Polyclonal Antibody, Unconjugated(SL0282R) 1:300, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining