

Recombinant Human CCNT1 cell lysate

Cat. No. CCNT1-308HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species

Human

Description

The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin tightly associates with CDK9 kinase, and was found to be a major subunit of the transcription elongation factor p-TEFb. The kinase complex containing this cyclin and the elongation factor can interact with, and act as a cofactor of human immunodeficiency virus type 1 (HIV-1) Tat protein, and was shown to be both necessary and sufficient for full activation of viral transcription. This cyclin and its kinase partner were also found to be involved in the phosphorylation and regulation of the carboxy-terminal domain (CTD) of the largest RNA polymerase II subunit.

Size

100 ul

Storage Buffer

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

Applications

Western Blot;

GENE INFORMATION

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Gene Name	CCNT1 cyclin T1 [Homo sapiens]
Official Symbol	CCNT1
Synonyms	CCNT1; cyclin T1; HIV1, human immunodeficiency virus type 1 (HIV 1) expression (elevated) 1; cyclin-T1; CCNT; CYCT1; cyclin-T; cyclin T1b; cyclin C-related protein; CDK9-associated C-type protein; Human immunodeficiency virus-1 expression; subunit of positive elongation transcription factor b; human immunodeficiency virus type 1 (HIV-1) expression (elevated) 1; HIV1; FLJ11223; DKFZp313A1331; DKFZp313N0919; DKFZp313O1211;
Gene ID	904
mRNA Refseq	NM_001240
Protein Refseq	NP_001231
MIM	143055
UniProt ID	O60563
Chromosome Location	12q13.11
Pathway	Disease, organism-specific biosystem; Formation of HIV-1 elongation complex containing HIV-1 Tat, organism-specific biosystem; Formation of HIV-1 elongation complex in the absence of HIV-1 Tat, organism-specific biosystem; Formation of RNA Pol II elongation complex, organism-specific biosystem; Gene Expression, organism-specific biosystem; HIV Infection, organism-specific biosystem; HIV Life Cycle, organism-specific biosystem;

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Function

DNA binding; chromatin binding; protein binding; protein kinase binding; snRNA binding; transcription regulatory region DNA binding;

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