



# Anti-CCNT1 monoclonal antibody (DCABH-10866)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

### Antigen 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.

<b>Immunogen</b>	A synthetic peptide of human CCNT1 is used for rabbit immunization.
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human
<b>Purification</b>	Protein A
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	Western Blot (Transfected lysate); ELISA
<b>Buffer</b>	In 1x PBS, pH 7.4
<b>Preservative</b>	None

**Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">CCNT1 cyclin T1 [ Homo sapiens ]</a>
<b>Official Symbol</b>	CCNT1
<b>Synonyms</b>	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;
<b>Entrez Gene ID</b>	<a href="#">904</a>
<b>Protein Refseq</b>	<a href="#">NP_001231</a>
<b>UniProt ID</b>	<a href="#">O60563</a>
<b>Chromosome Location</b>	12q13.11
<b>Pathway</b>	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;
<b>Function</b>	DNA binding; chromatin binding; protein binding; protein kinase binding; snRNA binding; transcription regulatory region DNA binding;