

Product datasheet for **TA319625**

Cyclin T1 (CCNT1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1 - 2 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Rabbit polyclonal CCNT1 antibody was raised against an 18 amino acid peptide near the carboxy terminus of human CCNT1.
Formulation:	CCNT1 Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	CCNT1 Antibody is affinity chromatography purified via peptide column.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	80 kDa
Gene Name:	cyclin T1
Database Link:	NP_001231 Entrez Gene 12455 MouseEntrez Gene 315291 RatEntrez Gene 904 Human O60563



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Background:

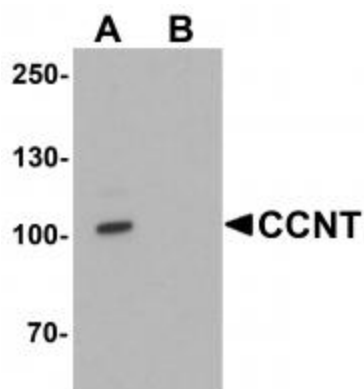
CCNT1 Antibody: Cyclins function as regulators of CDK kinases and exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. The cyclin-T1 protein (CCNT1) belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. CCNT1 tightly associates with CDK9 kinase, and was found to be a major subunit of the transcription elongation factor p-TEFb. The kinase complex containing CCNT1 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. CCNT1 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.

Synonyms:

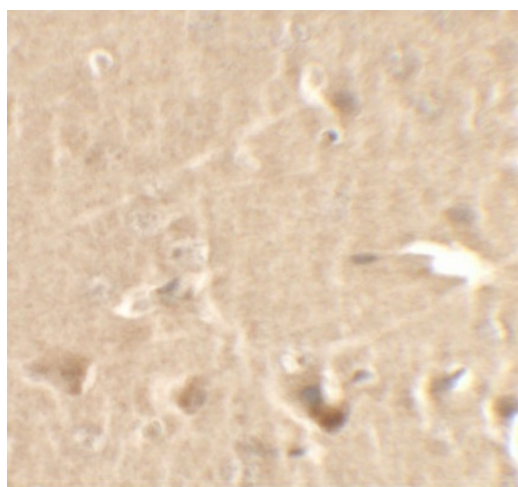
CCNT; CYCT1; HIVE1

Protein Families:

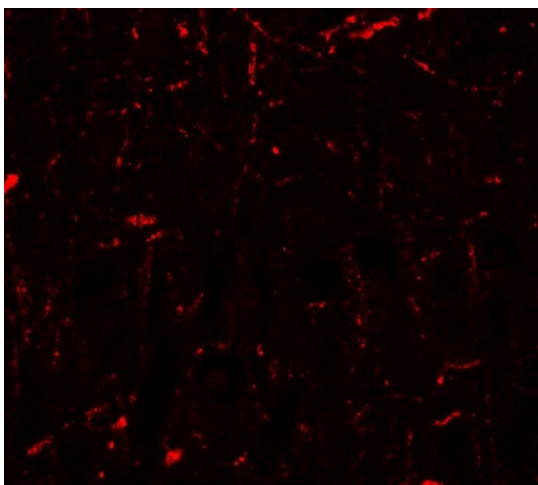
Druggable Genome, Transcription Factors

Product images:

Western blot analysis of CCNT1 in rat brain tissue lysate with CCNT1 antibody at 1 ug/mL in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of CCNT1 in rat brain tissue with CCNT1 antibody at 2.5 ug/mL.



Immunofluorescence of CCNT1 in rat brain tissue with CCNT1 antibody at 20 ug/mL.