

CCNT1 / Cyclin T1 Antibody (C-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS16009**Specification**

CCNT1 / Cyclin T1 Antibody (C-Terminus) - Product Information

Application	WB, IHC-P, IF, E
Primary Accession	O60563
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	81kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A IF~~1:50~200 E~~N/A

CCNT1 / Cyclin T1 Antibody (C-Terminus) - Additional Information**Gene ID** 904**Other Names**

Cyclin-T1, CycT1, Cyclin-T, CCNT1

Target/Specificity

Human CCNT1 / Cyclin T1

Reconstitution & Storage

Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

Precautions

CCNT1 / Cyclin T1 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

CCNT1 / Cyclin T1 Antibody (C-Terminus) - Protein Information**Name** CCNT1**Function**

Regulatory subunit of the cyclin-dependent kinase pair (CDK9/cyclin-T1) complex, also called positive transcription elongation factor B (P-TEFb), which facilitates the transition from abortive to productive elongation by phosphorylating the CTD (C-terminal domain) of the large subunit of RNA polymerase II (RNA Pol II) (PubMed:<[a href="http://www.uniprot.org/citations/16109376" target="_blank">16109376](http://www.uniprot.org/citations/16109376)>, PubMed:<[a href="http://www.uniprot.org/citations/16109377" target="_blank">16109377](http://www.uniprot.org/citations/16109377)>, PubMed:<[a href="http://www.uniprot.org/citations/30134174" target="_blank">30134174](http://www.uniprot.org/citations/30134174)>, PubMed:<[a href="http://www.uniprot.org/citations/35393539" target="_blank">35393539](http://www.uniprot.org/citations/35393539)>). Required to activate the protein kinase activity of CDK9: acts by mediating formation of liquid-liquid phase separation (LLPS) that enhances binding of P-TEFb to

the CTD of RNA Pol II (PubMed:29849146, PubMed:35393539).

Cellular Location

Nucleus

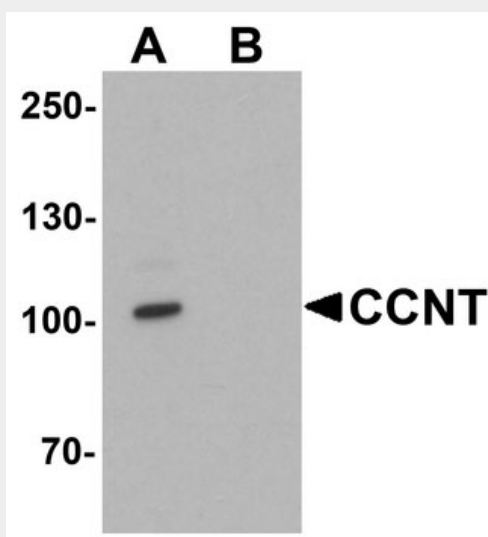
Tissue Location

Ubiquitously expressed.

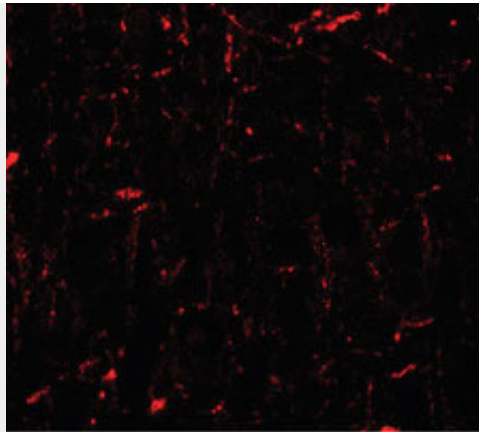
CCNT1 / Cyclin T1 Antibody (C-Terminus) - Protocols

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

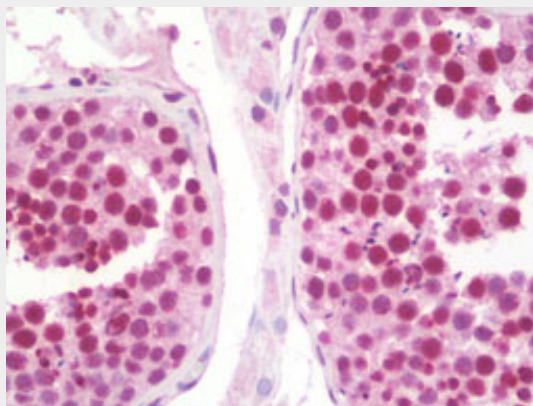
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CCNT1 / Cyclin T1 Antibody (C-Terminus) - Images

Western blot analysis of CCNT1 in rat brain tissue lysate with CCNT1 antibody at 1 ug/ml in (A)...



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



Anti-CCNT1 / Cyclin T1 antibody IHC staining of human testis.

CCNT1 / Cyclin T1 Antibody (C-Terminus) - Background

Regulatory subunit of the cyclin-dependent kinase pair (CDK9/cyclin-T1) complex, also called positive transcription elongation factor B (P-TEFb), which is proposed to facilitate the transition from abortive to productive elongation by phosphorylating the CTD (carboxy-terminal domain) of the large subunit of RNA polymerase II (RNA Pol II). In case of HIV or SIV infections, binds to the transactivation domain of the viral nuclear transcriptional activator, Tat, thereby increasing Tat's affinity for the transactivating response RNA element (TAR RNA). Serves as an essential cofactor for Tat, by promoting RNA Pol II activation, allowing transcription of viral genes.

CCNT1 / Cyclin T1 Antibody (C-Terminus) - References

- Wei P.,et al.Cell 92:451-462(1998).
- Peng J.-M.,et al.Genes Dev. 12:755-762(1998).
- Wu X.,et al.Submitted (JUN-2007) to the EMBL/GenBank/DDBJ databases.
- Scherer S.E.,et al.Nature 440:346-351(2006).
- Parada C.A.,et al.EMBO J. 18:3688-3701(1999).