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CCNT1 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI16181

Specification

CCNT1 antibody - N-terminal region - Product Information

Application	**WB**
Primary Accession	O60563
Other Accession	NM_001240, NP_001231
Reactivity	**Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Neisseria Gonorrhoeae, Guinea Pig, Dog**
Predicted	**Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Neisseria Gonorrhoeae, Guinea Pig, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**81kDa KDa**

CCNT1 antibody - N-terminal region - Additional Information

Gene ID 904

Alias Symbol	**CCNT, CYCT1, HIVE1**

Other Names
Cyclin-T1, CycT1, Cyclin-T, CCNT1

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 50 ul of distilled water. Final anti-CCNT1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
CCNT1 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

CCNT1 antibody - N-terminal region - 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:16109376, PubMed:<a href="http://www.uniprot.org/citations/16109377"

target="_blank">16109377, PubMed:30134174, PubMed: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

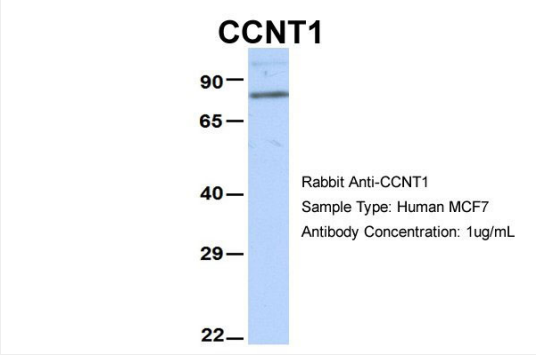
Tissue Location
Ubiquitously expressed.

CCNT1 antibody - N-terminal region - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CCNT1 antibody - N-terminal region - Images



Host: Rabbit
Target Name: CCNT1
Sample Tissue: Hela
Antibody Dilution: 1.0µg/mlCCNT1 is supported by BioGPS gene expression data to be expressed in HeLa

CCNT1 antibody - N-terminal region - 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 antibody - N-terminal region - 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).