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# CCNT1 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI16181

## Product Information

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| **Application** | WB |
| **Primary Accession** | O60563 |
| **Other Accession** | NM_001240, NP_001231 |
| **Reactivity** | Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine, Neisseria Gonorrhoeae |
| **Predicted** | Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine, Neisseria Gonorrhoeae |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 80685 |

## Additional Information

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| **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. |

## Protein Information

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| **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: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). |

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| **Cellular Location** | Nucleus |
| **Tissue Location** | Ubiquitously expressed. |

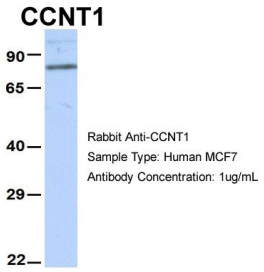
## Background

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.

## 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).


## 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


Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.