BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

# Anti-Cyclin-T1 CCNT1 Antibody

**Catalog Number:** A02703

## About CCNT1

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.

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## Overview

| | |
|---|---|
| Product Name | Anti-Cyclin-T1 CCNT1 Antibody |
| Reactive Species | Human, Mouse, Rat |
| Description | Boster Bio Anti-Cyclin-T1 CCNT1 Antibody (Catalog # A02703). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat. |
| Application | ELISA, IF, IHC-P, WB |
| Clonality | Polyclonal |
| Formulation | CCNT1 Antibody is supplied in PBS containing ≤0.09% sodium azide. |
| Storage Instructions | CCNT1 antibody can be stored at 4°C, stable for up to one year. |
| Host | Rabbit |
| Uniprot ID | O60563 |

## Technical Details

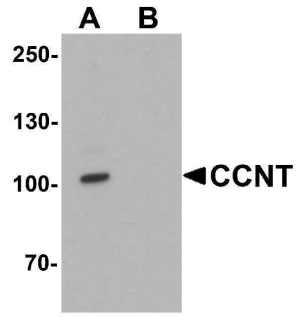
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| Immunogen | Rabbit polyclonal CCNT1 antibody was raised against an 18 amino acid peptide near the carboxy terminus of human CCNT1. The immunogen is located within the last 50 amino acids of CCNT1. |
| Predicted Reactive Species | Mouse |

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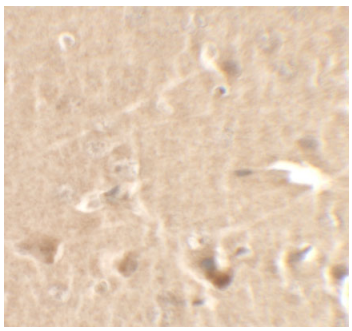
| | |
|---|---|
| Isotype | IgG |
| Form | Liquid |
| Concentration | 1 mg/mL |
| Purification | CCNT1 Antibody is affinity chromatography purified via peptide column. |
| Suggested Dilutions | CCNT1 antibody can be used for detection of CCNT1 by Western blot at 1 - 2 ug/mL. Antibody validated: Western Blot in rat samples; Immunohistochemistry in rat samples and Immunofluorescence in rat samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher. |

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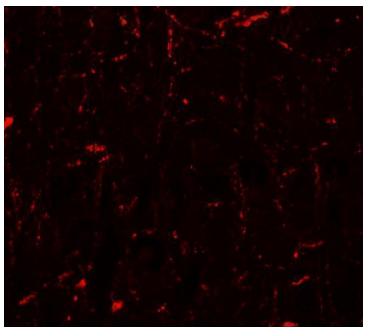
# Anti-Cyclin-T1 CCNT1 Antibody (A02703) Images




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.

Anti-Cyclin-T1 CCNT1 Antibody

For Research Use Only. Not for use in diagnostic procedures.