

Rabbit CCNT1 Polyclonal Antibody | anti-CCNT1 antibody

CCNT1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326549	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

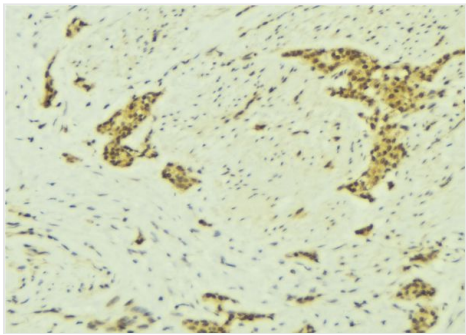
PRODUCT SYNONYMS

CCNT1; Polyclonal Antibody; CCNT1 Antibody; CCN T1; CCNT; CCNT 1; Ccnt1; CCNT1_HUMAN; CDK9 associated C type protein; Cyc T1; Cyclin C related protein; Cyclin T; cyclin T1; Cyclin T1b; Cyclin-T; Cyclin-T1; CYCT 1; CycT1; HIVE1; Human immunodeficiency virus 1 expression; Human immunodeficiency virus type 1 (HIV 1) expression (elevated) 1; pTEFb subunit; Subunit of positive elongation transcription factor b; anti-CCNT1 antibody

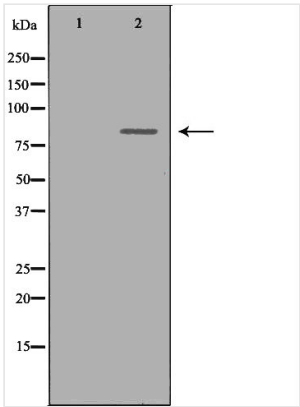
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	CCNT1 antibody detects endogenous levels of total CCNT1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	726
Applicable Applications for anti-CCNT1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide of human CCNT1
Subcellular Location	Nucleus.
Tissue Specificity	Ubiquitously expressed.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA326549 at 1/100 staining Human breast cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts of K562, using CCNT1 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-CCNT1 antibody

Description: Positive transcription elongation factor (P-TEFb) is a heterodimer composed of cyclin T proteins and CDK9. P-TEFb plays a critical role in the transition of the RNA polymerase II (RNAPII) machinery from transcription initiation to elongation (1). At some genes during transcription initiation, RNAPII moves approximately 50 nucleotides away from the transcription start site into the gene where it then pauses and awaits signaling for the formation of a productive transcription elongation complex (1, 2). The release of this promoter proximal pausing of RNAPII is signaled by phosphorylation of the C-terminal domain (CTD) within the largest subunit of RNAPII at Ser2 of the heptapeptide repeat sequence by P-TEFb (3). This phosphorylation event is important for the recruitment of mRNA processing factors and chromatin modifiers that are necessary for proper gene expression (4, 5). P-TEFb also promotes transcription elongation by phosphorylating DSIF (DRB-induced stimulating factor) and NELF (negative elongation factor), two negative elongation factors that retain RNAPII at the promoter proximal region of genes to initiate transcription elongation (6, 7).

Function: 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).

Subunit Structure: Cyclin-T1 is the predominant cyclin that associates with CDK9 to form a heterodimer called P-TEFb. P-TEFb forms a complex with AFF4/AF5Q31. Component of a complex which is at least composed of HTATSF1/Tat-SF1, P-TEFb complex, RNA pol II, SUPT5H, and NCL/nucleolin (PubMed:10393184). Component of the 7SK snRNP complex at least composed of P-TEFb (composed of CDK9 and CCNT1/cyclin-T1), HEXIM1, HEXIM2, BCDIN3, SART3 proteins and 7SK and U6 snRNAs (PubMed:17643375). Interacts with BRD4, probably to target chromatin binding (PubMed:16109376, PubMed:16109377). Interacts with MDFIC (PubMed:12944466). Interacts with HSF1 (PubMed:27189267). Interacts with HTATSF1 (PubMed:10913173). Interacts with AFF4 (PubMed:12065898). Interacts with TBX21 (PubMed:27292648).

Similarity: Belongs to the cyclin family. Cyclin C subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	17978466
NCBI GeneID	904
NCBI Accession #	NP_001231.2
NCBI GenBank Nucleotide #	NM_001240.3
UniProt Accession #	O60563; O60581; A9XU13; E7EX76
Molecular Weight	Observed: 81 kDa Predicted: 81 kDa
NCBI Official Full Name	cyclin-T1 isoform a

NCBI Official Synonym Full Names	cyclin T1
NCBI Official Symbol	CCNT1
NCBI Official Synonym Symbols	CCNT; CYCT1; HIVE1
NCBI Protein Information	cyclin-T1
UniProt Protein Name	Cyclin-T1
UniProt Gene Name	CCNT1
UniProt Synonym Gene Names	CycT1; Cyclin-T

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/polyclonal/ccnt1-antibody-immunohistochemistry-western-blot-elisa/326549>