

Datasheet for ABIN2792158

anti-Cyclin T1 antibody (N-Term)

3 Images

1 Publication

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Overview

Quantity:	100 µL
Target:	Cyclin T1 (CCNT1)
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Cow, Goat, Horse, Dog, Guinea Pig, Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Cyclin T1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human CCNT1
Sequence:	EGERKNNNKR WYFTREQLN SPSRRFGVDP DKELSYRQQA ANLLQDMGQR
Predicted Reactivity:	Cow: 100%, Dog: 92%, Goat: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%
Characteristics:	This is a rabbit polyclonal antibody against CCNT1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	Cyclin T1 (CCNT1)
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Target Details

Alternative Name: CCNT1 ([CCNT1 Products](#))

Background: CCNT1 belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin tightly associates with CDK9 kinase, and was found to be a major subunit of the transcription elongation factor p-TEFb. The kinase complex containing this cyclin 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. This cyclin 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. The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin tightly associates with CDK9 kinase, and was found to be a major subunit of the transcription elongation factor p-TEFb. The kinase complex containing this cyclin 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. This cyclin 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. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.

Alias Symbols: CCNT, CYCT1, HIVE1

Protein Interaction Partner: tat, LARP7, AFF1, CDK9, BRD4, HEXIM1, UBC, SUMO1, NEDD8, RN7SK, SUPT5H, SOX2, CTD, MBP, AFF4, ELL2, MED26, MLLT3, ESR1, DAB2, CCNT1, BRDT, BARD1, TAF1, RPS9, GNAI3, LEO1, C11orf58, TUBB4B, TP53BP1, KMT2A, UBE2A, POLR2A, GTF2F1, TAF7, Ep300, Gata4, TERF2,

Protein Size: 726

Molecular Weight: 81 kDa

Gene ID: 904

NCBI Accession: [NM_001240](#), [NP_001231](#)

UniProt: [O60563](#)

Application Details

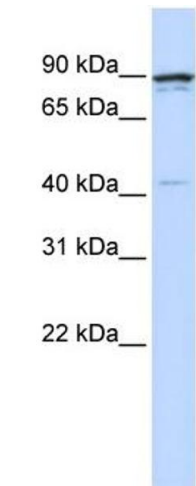
Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 726 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

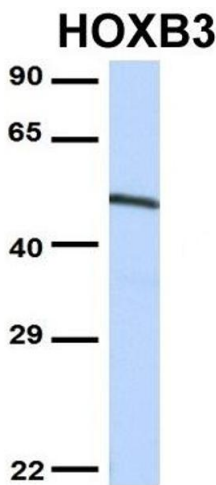
Publications

Product cited in:	Larkin, Costantino, Seaman, Lavoie: "Calnuc Function in Endosomal Sorting of Lysosomal Receptors." in: Traffic (Copenhagen, Denmark) , Vol. 17, Issue 4, pp. 416-32, (2016) (PubMed).
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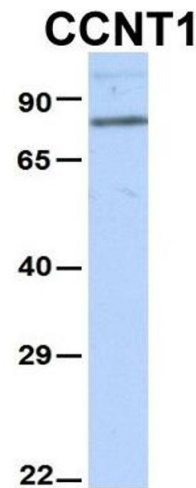
Western Blotting

Image 1. WB Suggested Anti-CCNT1 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:1562500 Positive Control: 721_B cell lysate CCNT1 is supported by BioGPS gene expression data to be expressed in 721_B



Western Blotting

Image 2. Host: Rabbit Target Name: CCNT1 Sample Type: MCF7 Antibody Dilution: 1.0ug/ml CCNT1 is supported by BioGPS gene expression data to be expressed in MCF7



Western Blotting

Image 3. Host: Rabbit Target Name: CCNT1 Sample Type: HeLa Antibody Dilution: 1.0ug/ml CCNT1 is supported by BioGPS gene expression data to be expressed in HeLa