

Datasheet for ABIN951765

anti-Cyclin T1 antibody (Middle Region)

3 Images

1 Publication

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Overview

Quantity:	0.4 mL
Target:	Cyclin T1 (CCNT1)
Binding Specificity:	AA 256-285, Middle Region
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Cyclin T1 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	KLH conjugated synthetic peptide between 256-285 amino acids from the Central region of human CCNT1
Isotype:	Ig Fraction
Specificity:	This antibody reacts to CCNT1.
Cross-Reactivity (Details):	Species reactivity (tested): Human and Mouse.
Purification:	Affinity chromatography on Protein A

Target Details

Target:	Cyclin T1 (CCNT1)
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Target Details

Alternative Name:	Cyclin T1 (CCNT1 Products)
Background:	<p>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.</p> <p>Synonyms: CCNT1, CycT1, Cyclin-T, Cyclin-T1</p>
Molecular Weight:	80685 Da
Gene ID:	904
NCBI Accession:	NP_001231

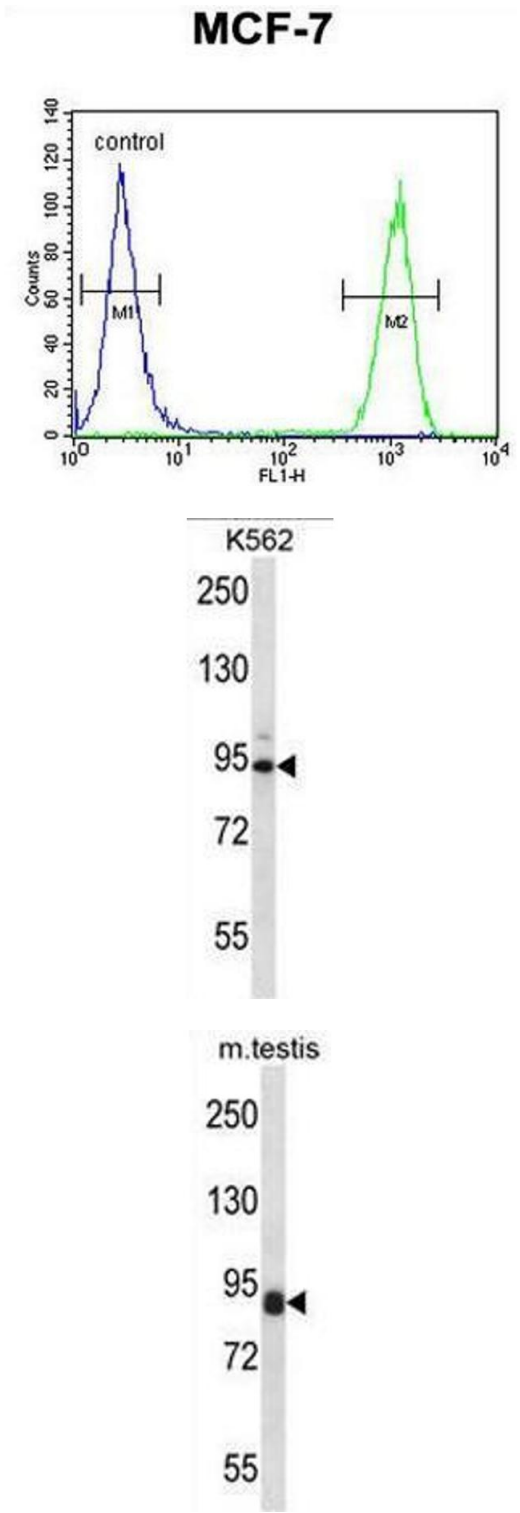
Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.25 mg/mL
Buffer:	PBS, 0.09 % (W/V) sodium azide
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 freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

Product cited in: Barbash, Zamfirova, Lin, Chen, Yang, Nakagawa, Lu, Rustgi, Diehl: "Mutations in Fbx4 inhibit dimerization of the SCF(Fbx4) ligase and contribute to cyclin D1 overexpression in human cancer." in: **Cancer cell**, Vol. 14, Issue 1, pp. 68-78, (2008) ([PubMed](#)).



Flow Cytometry

Image 1. CCNT1 Antibody (Center) flow cytometric analysis of MCF-7 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Western Blotting

Image 2. CCNT1 Antibody (Center) western blot analysis in K562 cell line lysates (35µg/lane).This demonstrates the CCNT1 antibody detected the CCNT1 protein (arrow).

Western Blotting

Image 3. CCNT1 Antibody (Center) western blot analysis in mouse testis tissue lysates (35µg/lane).This demonstrates the CCNT1 antibody detected the CCNT1 protein (arrow).