
Product Name: KD-Validated Cyclin T1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00396**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:100-1:1,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 80.7kDa

Antigen Information

Gene Name	CCNT1 CCNT1; Cyclin T1; CYCT1; CCNT; Human Immunodeficiency Virus Type 1 (HIV-1) Expression
Alternative Names	(Elevated); Cyclin-T1; HIVE1; CDK9-Associated C-Type Protein; Cyclin C-Related Protein; MLLT10/CCNT1 Fusion; Cyclin-T; CycT1
Gene ID	904.0
SwissProt ID	O60563
Immunogen	Recombinant protein of human Cyclin T1

Background

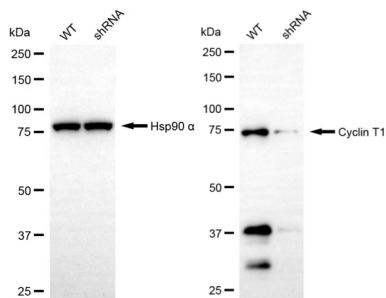
This gene encodes a member of the highly conserved cyclin C subfamily. The encoded protein tightly associates with cyclin-dependent kinase 9, and is a major subunit of positive transcription elongation factor b (p-TEFb). In humans, there are multiple

forms of positive transcription elongation factor b, which may include one of several different cyclins along with cyclin-dependent kinase 9. The complex containing the encoded cyclin and cyclin-dependent kinase 9 acts as a cofactor of human immunodeficiency virus type 1 (HIV-1) Tat protein, and is both necessary and sufficient for full activation of viral transcription. This cyclin and its kinase partner are also involved in triggering transcript elongation through phosphorylation of the carboxy-terminal domain of the largest RNA polymerase II subunit. Overexpression of this gene is implicated in tumor growth. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2013]

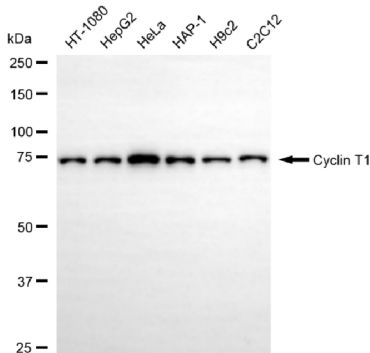
Research Area

Microbiology, Cell Biology, Epigenetics and Nuclear Signaling, Immunology

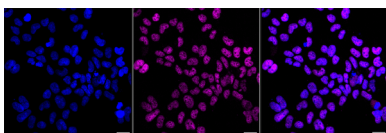
Image Data



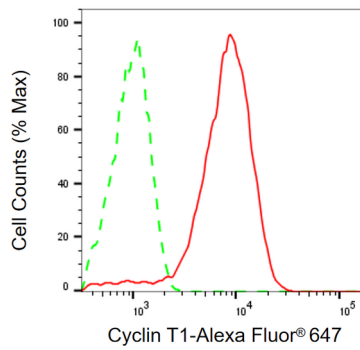
Western blotting analysis using cyclin T1 antibody (KVA00396). Cyclin T1 expression in wild-type (WT) and cyclin T1 (CCNT1) shRNA knockdown (KD) HT-1080 cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with cyclin T1 antibody (KVA00396, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using cyclin T1 antibody (KVA00396). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with cyclin T1 antibody (KVA00396, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells with Cyclin T1 protein antibody (KVA00396, 1:1,000). Nuclei were stained blue with DAPI; Cyclin T1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of Cyclin T1 expression in HeLa cells using Cyclin T1 antibody (KVA00396, 1:2,000). Green, isotype control; red, Cyclin T1.