

Mouse Cyclin T1 Monoclonal Antibody | anti-CCNT1 antibody

Anti-Cyclin T1 Antibody Picoband (monoclonal, 3B7)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126916	Mouse	Human, Monkey	Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

Cyclin T1; Monoclonal Antibody; Anti-Cyclin T1 Antibody Picoband (monoclonal; 3B7); anti-CCNT1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Monkey
Clonality	Monoclonal
Isotype	Mouse IgG2b
Clone Number	3B7
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-CCNT1 antibody	FCM/FACS (Flow Cytometry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human Cyclin T1 (375-410aa QKQNSKSVPSAKVSLKEYRAKHAEELAAQKRQLENM), different from the related mouse sequence by one amino acid.
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of U2OS cells using anti-Cyclin T1 antibody (AAA126916). Overlay histogram showing U2OS cells stained with AAA126916 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-Cyclin T1 Antibody (AAA126916, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-mouse IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was mouse IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)
Figure 1. Western blot analysis of Cyclin T1 using anti-Cyclin T1 antibody (AAA126916). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Jurkat whole cell lysates, Lane 2: human Hela whole cell lysates, Lane 3: human SW620 tissue lysates, Lane 4: monkey COS-7 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-Cyclin T1 antigen affinity purified monoclonal antibody (#AAA126916) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Cyclin T1 at approximately 81 kDa. The expected band size for Cyclin T1 is at 81 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-CCNT1 antibody	Cyclin-T1 is a protein that in humans is encoded by the CCNT1 gene. 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.
Product Categories/Family for anti-CCNT1 antibody	Primary Antibodies, Mouse Monoclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	9296942
NCBI GeneID	904
UniProt Accession #	O60563; O60581; A9XU13; E7EX76
Molecular Weight	726
NCBI Official Full Name	Cyclin-T1
NCBI Official Synonym Full Names	cyclin T1
NCBI Official Symbol	CCNT1
NCBI Official Synonym Symbols	CCNT; CYCT1; HIVE1
NCBI Protein Information	cyclin-T1; cyclin C-related protein; CDK9-associated C-type protein; human immunodeficiency virus type 1 (HIV-1) expression (elevated) 1
UniProt Protein Name	Cyclin-T1
UniProt Gene Name	CCNT1
UniProt Synonym Gene Names	CycT1; Cyclin-T
UniProt Entry Name	CCNT1_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cyclin-t1-antibody-clone-3b7-flow-cytometry-western-blot-elisa/126916>