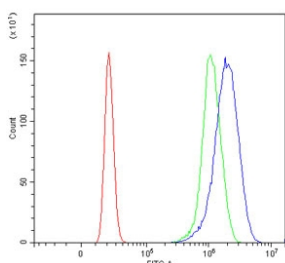


CCNT1 Antibody / Cyclin-T1 [clone 3B7] (RQ6588)

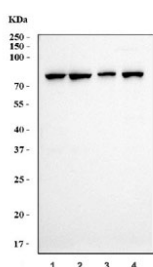
Catalog No.	Formulation	Size
RQ6588	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Monkey
Format	Antigen affinity purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b
Clone Name	3B7
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	O60563
Applications	Western Blot : 1-2ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This CCNT1 antibody is available for research use only.



Flow cytometry testing of human U-2 OS cells with CCNT1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= CCNT1 antibody.



Western blot testing of 1) human Jurkat, 2) human HeLa, 3) human SW620 and 4) monkey COS-7 cell lysate with CCNT1 antibody. Predicted molecular weight ~81 kDa.

Description

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.

Application Notes

Optimal dilution of the CCNT1 antibody should be determined by the researcher.

Immunogen

Amino acids QKQNSKSVPSAKVSLKEYRAKHAEELQKRQLENM from the human protein were used as the immunogen for the CCNT1 antibody.

Storage

After reconstitution, the CCNT1 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.