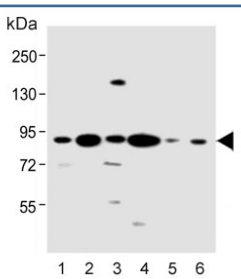
CCNT1 Antibody / Cyclin T1 (F54551)

Catalog No.	Formulation	Size
F54551-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54551-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

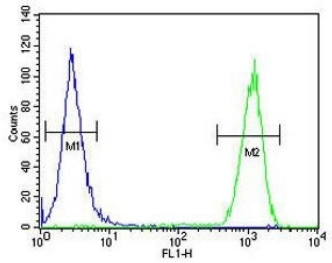
Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	O60563
Applications	Western Blot : 1:500-1:2000 Flow Cytometry : 1:25 (1x10e6 cells)
Limitations	This CCNT1 antibody is available for research use only.

Western blot testing of mouse testis lysate with CCNT1 antibody. Predicted molecular weight ~81 kDa.



Western blot testing of human 1) HeLa, 2) MCF7, 3) HL60, 4) Jurkat, 5) K562 and 6) SH-SY5Y cell lysate with CCNT1 antibody. Predicted molecular weight ~81 kDa.



Flow cytometry testing of human MCF7 cells with CCNT1 antibody; Blue=isotype control, Green= CCNT1 antibody.

Description

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.

Application Notes

The stated application concentrations are suggested starting points. Titration of the CCNT1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 253-281 from the human protein was used as the immunogen for the CCNT1 antibody.

Storage

Aliquot the CCNT1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.