

CCNT2 polyclonal antibody

Catalog # PAB11292 Size 100 uL

Applications

Western Blot (Cell lysate)

Western blot using CCNT2 polyclonal antibody (Cat # PAB11292) is shown to detect two major bands (arrowheads) corresponding to human CCN T2a and T2b as indicated.

Approximately 33 ug of a HeLa whole cell lysate was separated by 4-20% Tris Glycine SDS-PAGE.

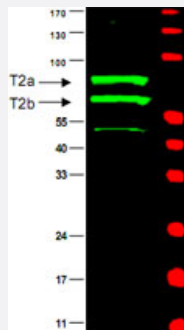
After blocking the membrane with 5% BLOTTO in PBS, the membrane was probed for overnight at 4°C with the primary antibody diluted to 1 : 500 in 5% BLOTTO in PBS.

The membrane was washed and reacted with a 1 : 10,000 dilution of IRDye™800 conjugated Gt-a-Rabbit IgG [H&L] for 45 min at room temperature (800 nm channel, green).

Molecular weight estimation was made by comparison to prestained MW markers indicated at the right (700 nm channel, red).

IRDye™ 800 fluorescence image was captured using the Odyssey® Infrared Imaging System developed by LI-COR.

IRDye is a trademark of LI-COR, Inc.



Specification

Product Description	Rabbit polyclonal antibody raised against partial recombinant CCNT2.
Immunogen	Recombinant protein corresponding to amino acids 1-584 of human CCNT2.
Host	Rabbit
Reactivity	Bovine, Dog, Human, Mouse, Rat
Form	Liquid
Quality Control Testing	Antibody Reactive Against Recombinant Protein.

Recommend Usage	ELISA (1:5000-1:20000) Immunoprecipitation (1:100) Western Blot (1:500-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In antiserum (0.01% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot using CCNT2 polyclonal antibody (Cat # PAB11292) is shown to detect two major bands (arrowheads) corresponding to human CCN T2a and T2b as indicated.

Approximately 33 ug of a HeLa whole cell lysate was separated by 4-20% Tris Glycine SDS-PAGE.

After blocking the membrane with 5% BLOTTO in PBS, the membrane was probed for overnight at 4°C with the primary antibody diluted to 1 : 500 in 5% BLOTTO in PBS.

The membrane was washed and reacted with a 1 : 10,000 dilution of IRDye™ 800 conjugated Gt-a-Rabbit IgG [H&L] for 45 min at room temperature (800 nm channel, green).

Molecular weight estimation was made by comparison to prestained MW markers indicated at the right (700 nm channel, red).

IRDye™ 800 fluorescence image was captured using the Odyssey® Infrared Imaging System developed by LI-COR.

IRDye is a trademark of LI-COR, Inc.

- Immunoprecipitation

- Enzyme-linked Immunoabsorbent Assay

Gene Info — CCNT2

Entrez GeneID	905
Protein Accession#	NP_001232(isoforma);NP_490595(isoformb)
Gene Name	CCNT2
Gene Alias	FLJ90560, MGC134840
Gene Description	cyclin T2
Omim ID	603862
Gene Ontology	Hyperlink

Gene Summary

The protein encoded by this gene 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 and its kinase partner CDK9 were found to be subunits of the transcription elongation factor p-TEFb. The p-TEFb complex containing this cyclin was reported to interact with, and act as a negative regulator of human immunodeficiency virus type 1 (HIV-1) Tat protein. Two alternatively spliced transcript variants, which encode distinct isoforms, have been described. [provided by RefSeq]

Other Designations

SDS-stable vimentin-bound DNA fragment HEF42VIM22|cyclin T2a|cyclin T2b|subunit of positive elongation transcription factor b

Publication Reference

- [Transcriptional activity and substrate recognition of cyclin T2 from P-TEFb.](#)

Kurosu T, Zhang F, Peterlin BM.

Gene 2004 Dec; 343(1):173.

- [Physical interaction between pRb and cdk9/cyclinT2 complex.](#)

Simone C, Bagella L, Bellan C, Giordano A.

Oncogene 2002 Jun; 21(26):4158.

Application: IP, WB-Ce, WB-Ti, Human, Mouse, NIH3T3, Jurkat HeLa cells

- [7SK small nuclear RNA binds to and inhibits the activity of CDK9/cyclin T complexes.](#)

Nguyen VT, Kiss T, Michels AA, Bensaude O.

Nature 2001 Nov; 414(6861):322.

Application: WB-Ce, Human, HeLa cells

Disease

- [Tobacco Use Disorder](#)