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[KD Validated] CCNT1 Rabbit mAb

Catalog No.: A28002 Recombinant

Basic Information

Observed MW
81kDa

Calculated MW
81kDa

Category
Primary antibody

Applications
WB,IP,IF/ICC,ELISA

Cross-Reactivity
Human

CloneNo number
ARC66196

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.

Recommended Dilutions

WB	1:5000 - 1:10000
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells
IF/ICC	1:200 - 1:800
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Contact

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Immunogen Information

Gene ID
904

Swiss Prot
O60563

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
CCNT; CYCT1; HIVE1

Product Information

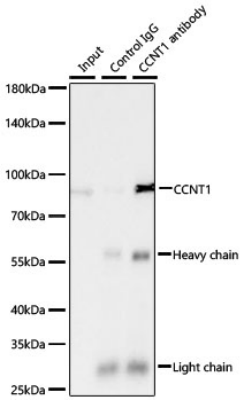
Source
Rabbit

Isotype
IgG

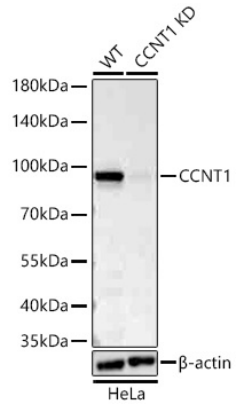
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

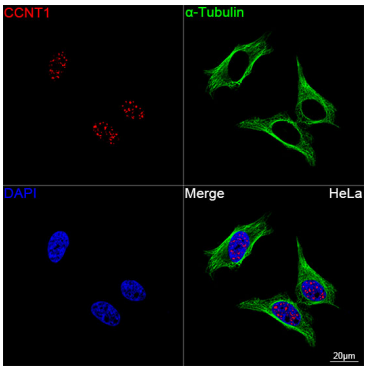
Validation Data



Immunoprecipitation of CCNT1 from 300 µg extracts of HeLa cells was performed using 1 µg of [KD Validated] CCNT1 Rabbit mAb (A28002). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1X Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using CCNT1 Rabbit mAb (A28002) at a dilution of 1:5000.



Western blot analysis of lysates from wild type (WT) and CCNT1 knockdown (KD) HeLa cells using [KD Validated] CCNT1 Rabbit mAb (A28002) at 1:5000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 20s.



Confocal imaging of HeLa cells using [KD Validated] CCNT1 Rabbit mAb (A28002, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.