

CTDP1 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6634a**Specification**

CTDP1 Antibody (N-term) - Product Information

Application	FC, IHC-P, WB,E
Primary Accession	Q9Y5B0
Other Accession	Q7TSG2
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	104399
Antigen Region	247-276

CTDP1 Antibody (N-term) - Additional Information**Gene ID** 9150**Other Names**

RNA polymerase II subunit A C-terminal domain phosphatase, TFIIIF-associating CTD phosphatase, CTDP1, FCP1

Target/Specificity

This CTDP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 247-276 amino acids from the N-terminal region of human CTDP1.

Dilution

FC~~1:10~50

IHC-P~~1:50~100

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

CTDP1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CTDP1 Antibody (N-term) - Protein Information

Name CTD1

Synonyms FCP1

Function Processively dephosphorylates 'Ser-2' and 'Ser-5' of the heptad repeats YSPTSPS in the C-terminal domain of the largest RNA polymerase II subunit. This promotes the activity of RNA polymerase II. Plays a role in the exit from mitosis by dephosphorylating crucial mitotic substrates (USP44, CDC20 and WEE1) that are required for M- phase-promoting factor (MPF)/CDK1 inactivation.

Cellular Location

Nucleus. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, spindle pole. Midbody Note=Found at centrosomes in prometaphase, at spindle and spindle poles in metaphase and at spindle midzone and midbody in anaphase and telophase-G1 respectively

Tissue Location

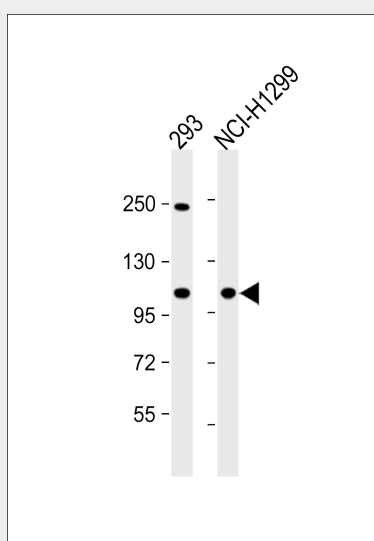
Ubiquitously expressed.

CTDP1 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

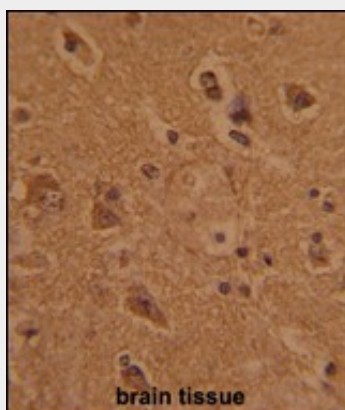
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CTDP1 Antibody (N-term) - Images

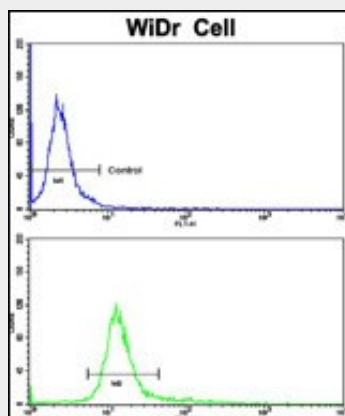


All lanes : Anti-CTDP1 Antibody (N-term) at 1:1000 dilution Lane 1: 293 whole cell lysate Lane 2: NCI-H1299 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 104 kDa Blocking/Dilution

buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human brain tissue with CTDPI Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow cytometric analysis of WiDr cells using CTDPI Antibody (N-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

CTDPI Antibody (N-term) - Background

CTDPI is a protein which interacts with the carboxy-terminus of transcription initiation factor TFIIF, a transcription factor which regulates elongation as well as initiation by RNA polymerase II. The protein may also represent a component of an RNA polymerase II holoenzyme complex.

CTDPI Antibody (N-term) - References

Hirose,Y., Biochem. Biophys. Res. Commun. 369 (2), 449-455 (2008)
Abbott,K.L., Biochemistry 44 (8), 2716-2731 (2005)