10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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, TFIIF-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

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Name CTDP1

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

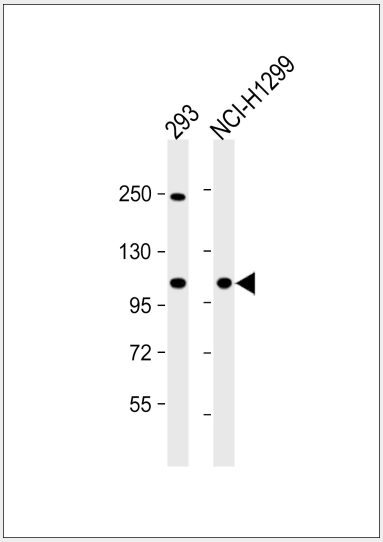
Tissue Location
Ubiquitously expressed.

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 Cytomety
- Cell Culture

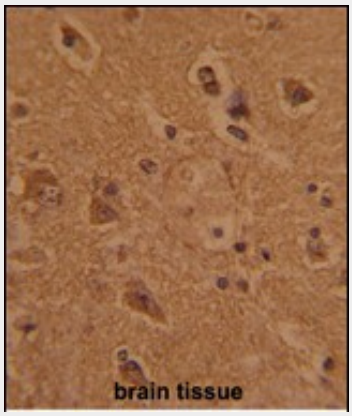
CTDP1 Antibody (N-term) - Images



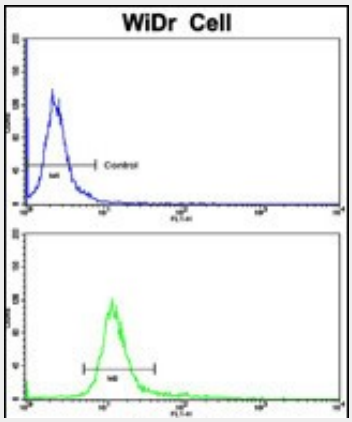
All lanes : Anti-CTDP1 Antibody (N-term) at 1:1000 dilution Lane 1: 293 whole cell lysate Lane 2: NCI-H1299 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 104 kDa Blocking/Dilution

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human brain tissue with CTDP1 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 CTDP1 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.

CTDP1 Antibody (N-term) - Background

CTDP1 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.

CTDP1 Antibody (N-term) - References

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