

DCTD Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16651A**Specification**

DCTD Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	P32321
Other Accession	Q5M9G0 , Q8K2D6 , NP_001912.2
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	20016
Antigen Region	1-30

DCTD Antibody (N-term) - Additional Information**Gene ID** 1635**Other Names**

Deoxycytidylate deaminase, dCMP deaminase, DCTD

Target/Specificity

This DCTD antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human DCTD.

Dilution

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

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

DCTD Antibody (N-term) - Protein Information**Name** DCTD ([HGNC:2710](#))

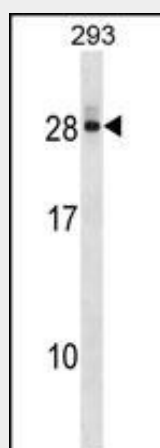
Function Catalyzes the deamination of dCMP to dUMP, providing the nucleoside monophosphate substrate for the thymidylate synthase/TYMS (PubMed:[7685356](#)). Also, part of a nucleotide salvage pathway that eliminates epigenetically modified 5-hydroxymethyl-dCMP (hmdCMP) in a two-step process entailing deamination to cytotoxic 5-hydroxymethyl- dUMP (hmdUMP), followed by its hydrolysis into 5-hydroxymethyluracil (hmU) and 2-deoxy-D-ribose 5-phosphate (deoxyribosephosphate) (PubMed:[33833118](#)). Catalyzes the first step in that pathway, the deamination of 5-hydroxymethyl-dCMP (hmdCMP) (PubMed:[33833118](#)).

DCTD Antibody (N-term) - Protocols

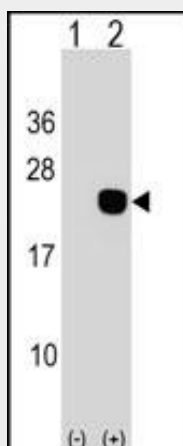
Provided below are standard protocols that you may find useful for product applications.

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

DCTD Antibody (N-term) - Images



DCTD Antibody (N-term) (Cat. #AP16651a) western blot analysis in 293 cell line lysates (35ug/lane). This demonstrates the DCTD antibody detected the DCTD protein (arrow).



Western blot analysis of DCTD (arrow) using rabbit polyclonal DCTD Antibody (N-term) (Cat. #AP16651a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the DCTD gene.

DCTD Antibody (N-term) - Background

The protein encoded by this gene catalyzes the deamination of dCMP to dUMP, the nucleotide substrate for thymidylate synthase. The encoded protein is allosterically activated by dCTP and inhibited by dTTP, and is found as a homohexamer. This protein uses zinc as a cofactor for its activity. Two transcript variants encoding different isoforms have been found for this gene.

DCTD Antibody (N-term) - References

Tanaka, M., et al. Cancer (2010) In press :
Okazaki, T., et al. Clin. Cancer Res. 16(1):320-329(2010)
Rha, S.Y., et al. Oncologist 12(6):622-630(2007)
Rush, J., et al. Nat. Biotechnol. 23(1):94-101(2005)
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