

**DHFR Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7378b****Specification**

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**DHFR Antibody (C-term) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">P00374</a>
Other Accession	<a href="#">Q920D2</a> , <a href="#">P00375</a>
Reactivity	Human, Rat
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	135-164

**DHFR Antibody (C-term) - Additional Information****Gene ID** 1719**Other Names**

Dihydrofolate reductase, Dhfr

**Target/Specificity**

This DHFR antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 135-164 amino acids from the C-terminal region of human DHFR.

**Dilution**

WB~~1:2000

IHC-P~~1:50~100

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**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**

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

**DHFR Antibody (C-term) - Protein Information****Name** DHFR

**Function** Key enzyme in folate metabolism. Contributes to the de novo mitochondrial thymidylate biosynthesis pathway. Catalyzes an essential reaction for de novo glycine and purine synthesis, and for DNA precursor synthesis. Binds its own mRNA and that of DHFR2.

**Cellular Location**

Mitochondrion {ECO:0000250|UniProtKB:P00375}. Cytoplasm {ECO:0000250|UniProtKB:P00375}

**Tissue Location**

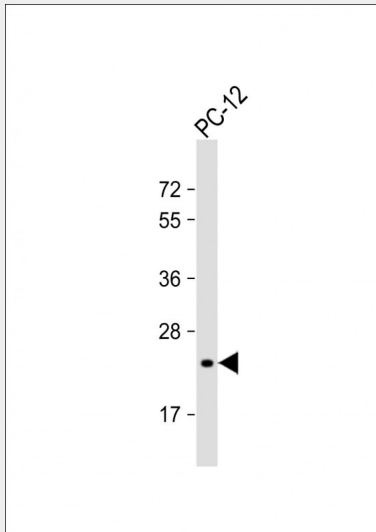
Widely expressed in fetal and adult tissues, including throughout the fetal and adult brains and whole blood Expression is higher in the adult brain than in the fetal brain

**DHFR Antibody (C-term) - Protocols**

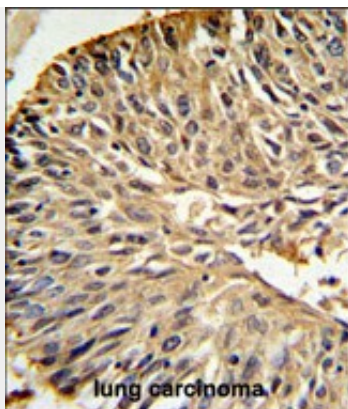
Provided below are standard protocols that you may find useful for product applications.

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

**DHFR Antibody (C-term) - Images**



Anti-DHFR Antibody (C-term) at 1:2000 dilution + PC-12 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 : 22 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



DHFR Antibody (C-term) (Cat.# AP7378b) IHC analysis in formalin fixed and paraffin embedded human lung carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the DHFR Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

#### **DHFR Antibody (C-term) - Background**

Dihydrofolate reductase converts dihydrofolate into tetrahydrofolate, a methyl group shuttle required for the de novo synthesis of purines, thymidylic acid, and certain amino acids. While the functional dihydrofolate reductase gene has been mapped to chromosome 5, multiple intronless processed pseudogenes or dihydrofolate reductase-like genes have been identified on separate chromosomes. Dihydrofolate reductase deficiency has been linked to megaloblastic anemia.

#### **DHFR Antibody (C-term) - References**

Cody,V., Proteins 65 (4), 959-969 (2006)  
Stone,D., J. Biol. Chem. 254 (2), 480-488 (1979)