

DHFR Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP7378b

Specification

DHFR Antibody (C-term) - Product Information

Application WB, IHC-P,E Primary Accession P00374

Other Accession
Reactivity
Human, Rat
Predicted
Host
Clonality
Isotype
Antigen Region

O920D2, P00375
Human, Rat
Producted
Rabbit
Rabbit
Rabbit
Polyclonal
Rabbit IgG
Antigen Region

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

 $E\sim\sim$ 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

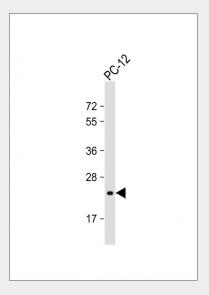
Widely expressed in fetal and adult tissues, including throughout the fetal and adult brains and whole blood Expression is higher in the adult brain than in the fetal brain

DHFR Antibody (C-term) - Protocols

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

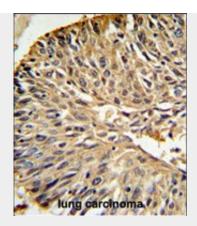
- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

DHFR Antibody (C-term) - Images



Anti-DHFR Antibody (C-term) at 1:2000 dilution + PC-12 whole cell lysate Lysates/proteins at 20 μ g 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)