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Mouse DHFR Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP7378b

Specification

Mouse DHFR Antibody (C-term) Blocking Peptide - Product Information

Primary Accession P00375

Mouse DHFR Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 13361

Other Names
Dihydrofolate reductase, Dhfr

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7378b was selected from the C-term region of human Mouse DHFR. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Mouse DHFR Antibody (C-term) Blocking Peptide - Protein Information

Name Dhfr

Function
Key enzyme in folate metabolism. Contributes to the de novo mitochondrial thymidylate biosynthesis pathway (PubMed:25980602). Catalyzes an essential reaction for de novo glycine and purine synthesis, and for DNA precursor synthesis (PubMed:25980602). Binds its own mRNA.

Cellular Location
Mitochondrion. Cytoplasm

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Mouse DHFR Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

Mouse DHFR Antibody (C-term) Blocking Peptide - Images

Mouse DHFR Antibody (C-term) Blocking Peptide - 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.

Mouse DHFR Antibody (C-term) Blocking Peptide - References

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