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[Marker Primary Antibody]

Rabbit Anti-DHFR/HRP Conjugated antibody

Catalog Number: SL9058R-HRP

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-DHFR/HRP
Immunogen:	KLH conjugated synthetic peptide derived from human DHFR
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse
Background:	background: DHFR catalyzes the NADPH-dependent reduction of dihydrofolate to tetrahydrofolate, and is a crucial enzyme for the synthesis of purines, pyrimidines and some amino acids. Inhibition of the activity of this enzyme leads to arrest of DNA synthesis and cell death. Gene expression of methotrexate (MTX)-resistant variants of DHFR in normal hematopoietic cells is a potential strategy to permit administration of larger doses of MTX by alleviating drug toxicity in normal cells and tissues that are drug sensitive. **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 DHFRL1. **Subunit:** Homodimer. **Tissue Specificity:** Widely expressed in fetal and adult tissues, including throughout the fetal and adult brains and whole blood. Expression is higher in

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	the adult brain than in the fetal brain. DISEASE: Defects in DHFR are the cause of megaloblastic anemia due to dihydrofolate reductase deficiency (DHFRD) [MIM:613839]. DHFRD is an inborn error of metabolism, characterized by megaloblastic anemia and/or pancytopenia, severe cerebral folate deficiency, and cerebral tetrahydrobiopterin deficiency. Clinical features include variable neurologic symptoms, ranging from severe developmental delay and generalized seizures in infancy, to childhood absence epilepsy with learning difficulties, to lack of symptoms. **Similarity:** Belongs to the dihydrofolate reductase family. Contains 1 DHFR (dihydrofolate reductase) domain. **Database links:** **Entrez Gene:** 1719 Human Omim: 126060 Human **SwissProt:** P00374 Human **Unigene:** 592364 Human **Unigene:** 648635 Human Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.