

Rabbit anti-Mouse, Rat DHFR Polyclonal Antibody | anti-Dhfr antibody

Mouse DHFR Antibody (C-term)

CATALOG # AAA284669	HOST Rabbit	REACTIVITY Mouse, Rat	APPLICATIONS Immunohistochemistry, ELISA, Western Blot
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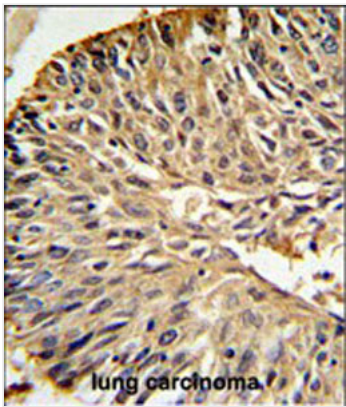
PRODUCT SYNONYMS

DHFR; Polyclonal Antibody; Mouse DHFR Antibody (C-term); Dihydrofolate reductase; Dhfr; anti-Dhfr antibody

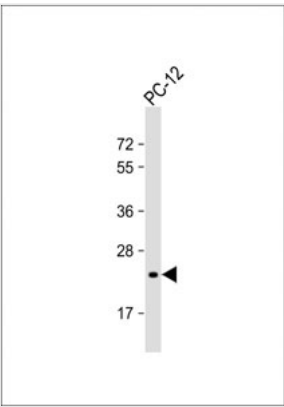
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This Mouse DHFR antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 135-164 amino acids from the C-terminal region of mouse DHFR.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/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.
Sequence Positions	135-164
Sequence Length	187
Applicable Applications for anti-Dhfr antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
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 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 and dihydrofolate reductase-like genes have been identified on separate chromosomes. Dihydrofolate reductase deficiency has been linked to megaloblastic anemia.
Preparation and 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.

IMAGES



IHC (Immunohiostchemistry)
DHFR Antibody (C-term) 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.



WB (Western Blot)
Anti-DHFR Antibody (C-term) at 1:2000 dilution + PC-12 whole cell lysate Lysates/proteins at 20 ug 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.

ADDITIONAL INFORMATION

Related Product Information for anti-Dhfr antibody	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.
Product Categories/Family for anti-Dhfr antibody	Cell Biology; Metabolism; Signal transduction
References	Cody,V., Proteins 65 (4), 959-969 (2006) Stone,D., J. Biol. Chem. 254 (2), 480-488 (1979)

NCBI AND UNIPROT INFORMATION

NCBI GI #	7106289
NCBI GeneID	13361
NCBI Accession #	NP_034179.1
NCBI GenBank Nucleotide #	NM_010049.3
UniProt Accession #	P00375; P70693; Q61485; Q61487; Q61579
Molecular Weight	21606
NCBI Official Full Name	dihydrofolate reductase
NCBI Official Synonym Full Names	dihydrofolate reductase
NCBI Official Symbol	Dhfr
NCBI Official Synonym Symbols	AA607882; AI662710; AW555094; 8430436I03Rik
NCBI Protein Information	dihydrofolate reductase
UniProt Protein Name	Dihydrofolate reductase
UniProt Gene Name	Dhfr
UniProt Entry Name	DYR_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/dhfr-antibody-immunohistochemistry-western-blot-elisa/284669>