

Mouse anti-Human DHFR Monoclonal Antibody | anti-DHFR antibody

DHFR antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48167	Mouse	Human	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, Western Blot, ELISA

PRODUCT SYNONYMS

DHFR; Monoclonal Antibody; DHFR antibody; Dihydrofolate reductase; EC 1.5.1.3; anti-DHFR antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, k
Clone Number	AT5B2
Purity/Purification	By protein-A affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1 mg/ml (varies by lot)
Sequence Length	187
Applicable Applications for anti-DHFR antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human DHFR (1-187aa) purified from E. coli
Clone Note	Anti-human DHFR mAb, clone AT5B2, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human DHFR protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



WB (Western Blot)

The Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human DHFR antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1. : HeLa cell lysate Lane 2. : Jurkat cell lysate Lane 3 : 293T cell lysate

ADDITIONAL INFORMATION

Related Product Information for anti-DHFR antibody	Dihydrofolate reductase (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.
References	Chen MJ., et al. (1984) J Biol Chem. 259 (6): 3933-3943. ; Cody V., et al. (2009) Biochemistry. 48 (8): 1702-1711.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503323
NCBI GeneID	1719
NCBI Accession #	NP_000782
NCBI GenBank Nucleotide #	NM_000791.3
UniProt Accession #	P00374; Q14130; Q6IRW8; B4DDD2
Molecular Weight	15,672 Da
NCBI Official Full Name	dihydrofolate reductase isoform 1
NCBI Official Synonym Full Names	dihydrofolate reductase
NCBI Official Symbol	DHFR
NCBI Official Synonym Symbols	DYR; DHFRP1
NCBI Protein Information	dihydrofolate reductase
UniProt Protein Name	Dihydrofolate reductase
UniProt Gene Name	DHFR

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/monoclonal/dhfr-antibody-clone-at5b2-immunofluorescence-immunocytochemistry-flow-cytometry-western-blot-elisa/48167>