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# **Human Dihydrofolate Reductase/DHFR antibody**

Catalog Number: ATGA0376

## **PRODUCT INFORMATION**

## Catalog number

ATGA0376

#### Clone No.

AT5B2

## **Product type**

Monoclonal Antibody

#### UnitProt No.

P00374

#### **NCBI Accession No.**

NP 000782

#### **Alternative Names**

Dihydrofolate reductase, EC 1.5.1.3

## **PRODUCT SPECIFICATION**

## **Antibody Host**

Mouse

#### **Reacts With**

Human

#### Concentration

1mg/ml (determined by BCA assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

#### **Immunogen**

Recombinant human DHFR (1-187aa) purified from E. coli

#### Isotype

IgG1 kappa

## **Purification Note**

By protein-A affinity chromatography

## **Application**

ELISA, WB

#### Usage

The antibody has been tested by ELISA, Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

#### **Storage**



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Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

## **Description**

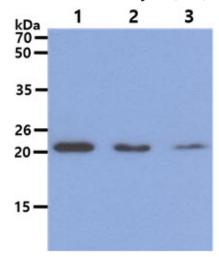
Dihydrofolate reductase (DHFR) catalyzes the NADPH-dependent reduction of dihydrofolate to tetrahydrofolate, and is a crucial enzyme for the synthesis of purines, pyrimidines and some amino acids. Inhibition of the activity of this enzyme leads to arrest of DNA synthesis and cell death. Gene expression 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.

#### **General References**

Chen MJ., et al. (1984) J Biol Chem. 259(6): 3933-3943. Cody V., et al. (2009) Biochemistry. 48(8): 1702-1711.

## **DATA**

## Western blot analysis (WB)



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

