

## Product datasheet for **AM50636PU-N**

### DHFR / DHFRP1 Mouse Monoclonal Antibody [Clone ID: AT5B2]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	AT5B2
Applications:	ELISA, WB
Recommended Dilution:	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.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant human DHFR (1-187aa) purified from E. coli.
Formulation:	Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol. State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein-A affinity chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	dihydrofolate reductase
Database Link:	<a href="#">Entrez Gene 1719 Human P00374</a>



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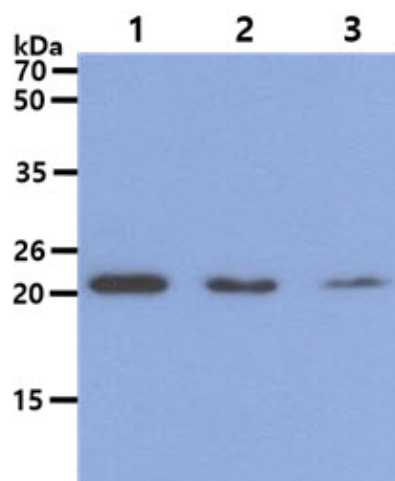
**Background:** Dihydrofolate reductase (DHFR) catalyzes the NPH-dependent reduction of dihydrofolate to tetrahydrofolate, and is a crucial enzyme for the synthesis of purines, pyrimidines and some amino acids. Inhibition of the activity of this enzyme leads to arrest of DNA synthesis and cell death.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

**Synonyms:** Dihydrofolate reductase

**Protein Families:** Druggable Genome, Stem cell - Pluripotency

**Protein Pathways:** Folate biosynthesis, Metabolic pathways, One carbon pool by folate

### Product images:



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