



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# DHFR (h2): 293T Lysate: sc-170387

## BACKGROUND

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

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- Yoshikawa, T., Nakanishi, F., Ogura, Y., Oi, D., Omasa, T., Katakura, Y., Kishimoto, M. and Suga, K. 2000. Amplified gene location in chromosomal DNA affected recombinant protein production and stability of amplified genes. *Biotechnol. Prog.* 16: 710-715.
- Belur, L.R., Boelk-Galvan, D., Diers, M.D., Mclvor, R.S. and Zimmerman, C.L. 2001. Methotrexate accumulates to similar levels in animals transplanted with normal versus drug-resistant transgenic marrow. *Cancer Res.* 61: 1522-1526.
- Grillari, J., Fortschegger, K., Grabherr, R.M., Hohenwarter, O., Kunert, R. and Katinger, H. 2001. Analysis of alterations in gene expression after amplification of recombinant genes in CHO cells. *J. Biotechnol.* 87: 59-65.

## CHROMOSOMAL LOCATION

Genetic locus: DHFR (human) mapping to 5q14.1.

## PRODUCT

DHFR (h2): 293T Lysate represents a lysate of human DHFR transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## APPLICATIONS

DHFR (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive DHFR antibodies. Recommended use: 10-20 µl per lane.

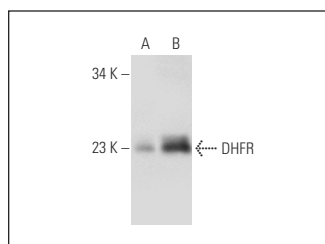
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

DHFR (A-4): sc-74593 is recommended as a positive control antibody for Western Blot analysis of enhanced human DHFR expression in DHFR transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

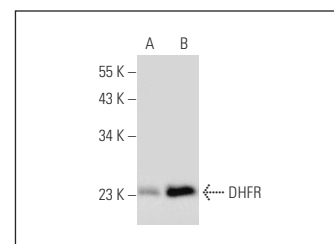
## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:  
 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

## DATA



DHFR (A-4): sc-74593. Western blot analysis of DHFR expression in non-transfected: sc-117752 (A) and human DHFR transfected: sc-170387 (B) 293T whole cell lysates.



DHFR (F-8): sc-74594. Western blot analysis of DHFR expression in non-transfected: sc-117752 (A) and human DHFR transfected: sc-170387 (B) 293T whole cell lysates.

## STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.