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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

FTCD (m): 293T Lysate: sc-120328

BACKGROUND

58K protein antibodies are excellent for use as markers for the Golgi complex. The 58K protein has been identified as being FTCD, a bifunctional enzyme that channels one-carbon units from formiminoglutamate, a metabolite of the histidine degradation pathway, to the folate pool. Defects in FTCD are the cause of glutamate formiminotransferase deficiency [also known as formiminoglutamicaciduria (FIGLU-uria)], an autosomal recessive disorder. Features of a severe phenotype include elevated levels of formiminoglutamate (FIGLU) in the urine in response to histidine administration, megaloblastic anemia and mental retardation. Features of a mild phenotype include high urinary excretion of FIGLU in the absence of histidine administration, mild developmental delay and no hematological abnormalities.

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- Mao, Y., Vyas, N.K., Vyas, M.N., Chen, D.H., Ludtke, S.J., Chiu, W. and Quioco, F.A. 2004. Structure of the bifunctional and Golgi-associated formiminotransferase octamer. *EMBO J.* 23: 2963-2971.
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CHROMOSOMAL LOCATION

Genetic locus: *Ftcd* (mouse) mapping to 10 C1.

PRODUCT

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

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.

APPLICATIONS

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

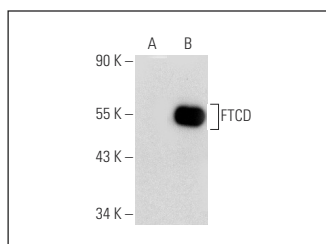
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

FTCD (G-3): sc-271788 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse FTCD expression in FTCD transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

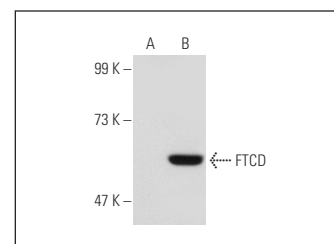
RECOMMENDED SUPPORT REAGENTS

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



FTCD (G-3): sc-271788. Western blot analysis of FTCD expression in non-transfected: sc-117752 (A) and mouse FTCD transfected: sc-120328 (B) 293T whole cell lysates.



FTCD (58K-9): sc-53128. Western blot analysis of FTCD expression in non-transfected: sc-117752 (A) and mouse FTCD transfected: sc-120328 (B) 293T whole cell lysates.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.