

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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ALDH1L1 (m7): 293T Lysate: sc-118340



The Power to Questio

BACKGROUND

Aldehyde dehydrogenases (ALDHs) mediate NADP+-dependent oxidation of aldehydes into acids during detoxification of alcohol-derived acetaldehyde, lipid peroxidation and metabolism of corticosteroids, biogenic amines and neurotransmitters. ALDH1L1 (aldehyde dehydrogenase 1 family member L1), also known as FTHFD or 10-FTHFD (10-formyltetrahydrofolate dehydrogenase), is a cytosolic protein that is developmentally regulated in the cerebellum. ALDH1L1 binds to folate and catalyzes the conversion of 10-formyltetrahydrofolate (10-FTHF) to tetrahydrofolate (THF). This suggests a possible role for ALDH1L1 in the regulation of cellular THF levels as well as in the inhibition of cell proliferation (as 10-FTHF is essential for the synthesis of purine). In addition, the overexpression of ALDH1L1 can restrict cell proliferation *in vitro*.

REFERENCES

- Champion, K.M., et al. 1994. Identification of a heritable deficiency of the folate-dependent enzyme 10-formyltetrahydrofolate dehydrogenase in mice. Proc. Natl. Acad. Sci. USA 91: 11338-11342.
- 2. Vasiliou, V., et al. 2000. Role of aldehyde dehydrogenases in endogenous and xenobiotic metabolism. Chem. Biol. Interact. 129: 1-19.
- 3. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 600249. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
- Sládek, N.E. 2003. Human aldehyde dehydrogenases: potential pathological, pharmacological, and toxicological impact. J. Biochem. Mol. Toxicol. 17: 7-23
- Strolin Benedetti, M., et al. 2006. Involvement of enzymes other than CYPs in the oxidative metabolism of xenobiotics. Expert Opin. Drug Metab. Toxicol. 2: 895-921.
- 6. Lee, K.M., et al. 2007. One-carbon metabolism gene polymorphisms and risk of non-Hodgkin lymphoma in Australia. Hum. Genet. 122: 525-533.

CHROMOSOMAL LOCATION

Genetic locus: Aldh1I1 (mouse) mapping to 6 D1.

PRODUCT

ALDH1L1 (m7): 293T Lysate represents a lysate of mouse ALDH1L1 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

ALDH1L1 (m7): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive ALDH1L1 antibodies. Recommended use: 10-20 μ l per lane.

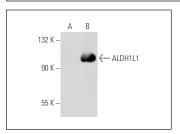
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

ALDH1L1 (YY8): sc-100497 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse ALDH1L1 expression in ALDH1L1 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-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



ALDH1L1 (YY8): sc-100497. Western blot analysis of ALDH1L1 expression in non-transfected: sc-117752 (A) and mouse ALDH1L1 transfected: sc-118340 (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.

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.

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