

ALDH8A1 (m): 293T Lysate: sc-118346

BACKGROUND

Aldehyde dehydrogenases (ALDHs) mediate the NADP⁺-dependent oxidation of aldehydes into acids and play an important role in the detoxification of alcohol-derived acetaldehyde, as well as in lipid peroxidation and in the metabolism of corticosteroids, biogenic amines and neurotransmitters. ALDH8A1 (aldehyde dehydrogenase 8 family, member A1), also known as ALDH12, is a 487 amino acid protein that localizes to the cytoplasm and belongs to the aldehyde dehydrogenase family. Expressed in kidney and liver, ALDH8A1 converts 9-*cis*-retinal to 9-*cis*-retinoic acid. 9-*cis*-retinoic acid activates retinoid X receptors, a family of nuclear receptors which are involved in regulating multiple signaling pathways. Three isoforms exist due to alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: *Aldh8a1* (mouse) mapping to 10 A3.

RESEARCH USE

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

PRODUCT

ALDH8A1 (m): 293T Lysate represents a lysate of mouse ALDH8A1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

ALDH8A1 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive ALDH8A1 antibodies. Recommended use: 10-20 µl per lane.

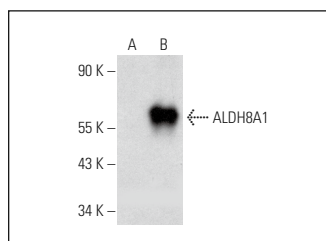
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

ALDH8A1 (E-2): sc-515006 is recommended as a positive control antibody for Western Blot analysis of enhanced human ALDH8A1 expression in ALDH8A1 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



ALDH8A1 (E-2): sc-515006. Western blot analysis of ALDH8A1 expression in non-transfected: sc-117752 (A) and mouse ALDH8A1 transfected: sc-118346 (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 for detailed protocols and support products.