ALDH16A1 (h2): 293T Lysate: sc-113627



The Power to Question

BACKGROUND

ALDH16A1 (aldehyde dehydrogenase 16 family, member A1) is an 802 amino acid protein belonging to the aldehyde dehydrogenase superfamily. Family members react with aldehyde substrates and enlist nicotinamide adenine dinucleotide phosphate (NADP) as a cofactor. ALDH16A1 participates in oxidoreductase activity, protein binding and interacts with Maspardin, a protein linked to Mast syndrome. Encoded by a gene that maps to human chromosome 19q13.33, ALDH16A1 exists as two alternatively spliced isoforms and contains seventeen exons. ALDH16A1 is conserved in chimpanzee, canine, bovine, mouse, rat and zebrafish; however, a cysteine active site and glutamate residues are not conserved.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ALDH16A1 (human) mapping to 19q13.33.

PRODUCT

ALDH16A1 (h2): 293T Lysate represents a lysate of human ALDH16A1 transfected 293T cells and is provided as 100 μ g protein in 200 μ l 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

ALDH16A1 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive ALDH16A1 antibodies. Recommended use: 10-20 μ l per lane

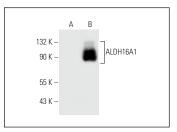
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

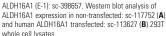
ALDH16A1 (E-1): sc-398657 is recommended as a positive control antibody for Western Blot analysis of enhanced human ALDH16A1 expression in ALDH16A1 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

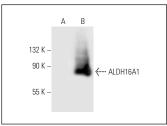
RECOMMENDED SUPPORT REAGENTS

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







ALDH16A1 (C-5): sc-398693. Western blot analysis of ALDH16A1 expression in non-transfected: sc-117752 (A) and human ALDH16A1 transfected: sc-113627 (B) 293T whole cell Ivsates.

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.