

ALDH1B1 (K-13): sc-107392

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. Alcohol drinking habits and cardiovascular disease risk factors may be associated with ALDH gene variants. ALDH1B1 (Aldehyde dehydrogenase family 1 member B1), also known as ALDH5 or ALDHX (Aldehyde dehydrogenase X, mitochondrial), is a 517 amino acid mitochondrial protein that is expressed in the liver, testis and to a lesser extent in brain. ALDH1B1 belongs to the aldehyde dehydrogenase family and may play a major role in ethanol detoxification.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ALDH1B1 (human) mapping to 9p13.2; Aldh1b1 (mouse) mapping to 4 B1.

SOURCE

ALDH1B1 (K-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ALDH1B1 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-107392 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ALDH1B1 (K-13) is recommended for detection of ALDH1B1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

ALDH1B1 (K-13) is also recommended for detection of ALDH1B1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ALDH1B1 siRNA (h): sc-92848, ALDH1B1 siRNA (m): sc-140999, ALDH1B1 shRNA Plasmid (h): sc-92848-SH, ALDH1B1 shRNA Plasmid (m): sc-140999-SH, ALDH1B1 shRNA (h) Lentiviral Particles: sc-92848-V and ALDH1B1 shRNA (m) Lentiviral Particles: sc-140999-V.

Molecular Weight of ALDH1B1: 57 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker[™] Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. 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 or our catalog for detailed protocols and support products.



Try **ALDH1B1 (G-2): sc-393583** or **ALDH1B1 (C-7): sc-374090**, our highly recommended monoclonal alternatives to ALDH1B1 (K-13).