

ZADH2 (G-14): sc-85215



The Power to Question

BACKGROUND

ZADH2 (zinc binding alcohol dehydrogenase domain containing 2) is a 377 amino acid protein that belongs to the zinc-containing alcohol dehydrogenase family and is encoded by a gene which maps to human chromosome 18. Chromosome 18 houses over 300 protein-coding genes and contains nearly 76 million bases. There are a variety of diseases associated with defects in chromosome 18-localized genes, some of which include Trisomy 18 (also known as Edwards syndrome), Niemann-Pick disease, hereditary hemorrhagic telangiectasia, erythropoietic protoporphyria and follicular lymphomas.

REFERENCES

1. Yoshikawa, T., et al. 1997. Isolation of chromosome 18-specific brain transcripts as positional candidates for bipolar disorder. *Am. J. Med. Genet.* 74: 140-149.
2. Esterling, L.E., et al. 1997. An integrated physical map of 18p11.2: a susceptibility region for bipolar disorder. *Mol. Psychiatry* 2: 501-504.
3. Petek, E., et al. 2003. Characterisation of a 19-year-old "long-term survivor" with Edwards syndrome. *Genet. Couns.* 14: 239-244.
4. Grosso, S., et al. 2005. Chromosome 18 aberrations and epilepsy: a review. *Am. J. Med. Genet. A* 134: 88-94.
5. Nusbaum, C., et al. 2005. DNA sequence and analysis of human chromosome 18. *Nature* 437: 551-555.
6. Pickard, B.S., et al. 2005. Candidate psychiatric illness genes identified in patients with pericentric inversions of chromosome 18. *Psychiatr. Genet.* 15: 37-44.

CHROMOSOMAL LOCATION

Genetic locus: ZADH2 (human) mapping to 18q22.3; Zadh2 (mouse) mapping to 18 E4.

SOURCE

ZADH2 (G-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of ZADH2 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-85215 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

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

APPLICATIONS

ZADH2 (G-14) is recommended for detection of ZADH2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

ZADH2 (G-14) is also recommended for detection of ZADH2 in additional species, including canine and bovine.

Suitable for use as control antibody for ZADH2 siRNA (h): sc-76946, ZADH2 siRNA (m): sc-155428, ZADH2 shRNA Plasmid (h): sc-76946-SH, ZADH2 shRNA Plasmid (m): sc-155428-SH, ZADH2 shRNA (h) Lentiviral Particles: sc-76946-V and ZADH2 shRNA (m) Lentiviral Particles: sc-155428-V.

Molecular Weight (predicted) of ZADH2: 40 kDa.

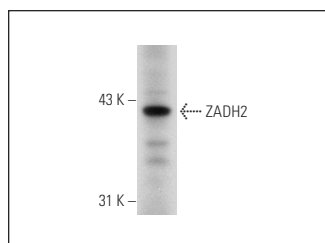
Molecular Weight (observed) of ZADH2: 42-46 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, K-562 whole cell lysate: sc-2203 or mouse liver tissue extract: sc-2256.

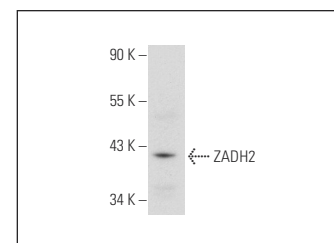
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



ZADH2 (G-14): sc-85215. Western blot analysis of ZADH2 expression in mouse liver tissue extract.



ZADH2 (G-14): sc-85215. Western blot analysis of ZADH2 expression in HeLa whole cell lysate.

RESEARCH USE

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