SANTA CRUZ BIOTECHNOLOGY, INC.

ZDHHC2 (H-65): sc-292338

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Zinc-finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. ZDHHC2 (zinc finger, DHHC-type containing 2), also known as DHHC2, ZNF372, REAM or REC, is a 367 amino acid multi-pass membrane protein that contains one DHHC-type zinc finger. The ubiquitously expressed ZDHHC2 protein functions as a palmitoyltransferase that uses palmitoyl-CoA and catalyzes the conversion of target proteins, namely GAP-43 and PSD-95, to S-palmitoyl proteins. Defects in the gene encoding ZDHHC2 are found in colorectal cancer and hepatocellular carcinoma, suggesting a role for ZDHHC2 in tumorigenesis. The gene encoding human ZDHHC2 maps to chromosome 8, which consists of nearly 146 million base pairs, houses more than 800 genes and is associated with a variety of diseases and malignancies.

CHOMOSOMAL LACATION

Genetic locus: ZDHHC2 (human) mapping to 8p22; Zdhhc2 (mouse) mapping to 8 A4.

SOURCE

ZDHHC2 (H-65) is a rabbit polyclonal antibody raised against amino acids 303-367 mapping at the C-terminus of ZDHHC2 of human origin.

PRODUCT

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

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-292338 X, 200 µg/0.1 ml.

APPLICATIONS

ZDHHC2 (H-65) is recommended for detection of ZDHHC2 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); non cross-reactive with other ZDHHC family members.

ZDHHC2 (H-65) is also recommended for detection of ZDHHC2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ZDHHC2 siRNA (h): sc-77478, ZDHHC2 siRNA (m): sc-155497, ZDHHC2 shRNA Plasmid (h): sc-77478-SH, ZDHHC2 shRNA Plasmid (m): sc-155497-SH, ZDHHC2 shRNA (h) Lentiviral Particles: sc-77478-V and ZDHHC2 shRNA (m) Lentiviral Particles: sc-155497-V.

ZDHHC2 (H-65) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

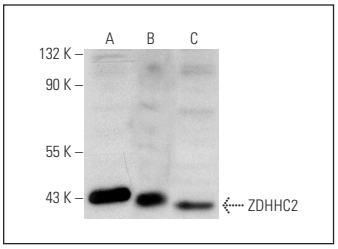
Molecular Weight of ZDHHC2: 42 kDa.

Positive Controls: COLO 320DM cell lysate: sc-2226, Hep G2 cell lysate: sc-2227 or Neuro-2A whole cell lysate: sc-364185.

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



ZDHHC2 (H-65): sc-292338. Western blot analysis of ZDHHC2 expression in Neuro-2A (**A**), COLO 320DM (**B**) and Hep G2 (**C**) whole cell lysates.

SELECT PRODUCT CITATIONS

1. Peng, C., et al. 2014. A critical role for ZDHHC2 in metastasis and recurrence in human hepatocellular carcinoma. Biomed. Res. Int. 2014: 832712.

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.