

ZDHHC7 (G-12): sc-165929

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. ZDHHC1 (zinc finger, DHHC-type containing 1), also known as ZNF377 (zinc finger protein 377) or C16orf1, is a 485 amino acid multi-pass membrane protein that contains one DHHC-type zinc finger. Expressed in fetal heart, lung and kidney and also present in adult lung and pancreas, ZDHHC1 functions as a palmitoyltransferase that catalyzes the conversion of palmitoyl-CoA and protein-cysteine to S-palmitoyl protein and CoA. Like ZDHHC1, ZDHHC5, ZDHHC6, ZDHHC7 and ZDHHC18 each contain one DHHC-type zinc finger through which they convey palmitoyltransferase activity against a broad range of substrates, including H-Ras, SNAP 25 and GABA_A R proteins.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ZDHHC7 (human) mapping to 16q24.1; Zdhhc7 (mouse) mapping to 8 E1.

SOURCE

ZDHHC7 (G-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ZDHHC7 of human origin.

RESEARCH USE

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

PRODUCT

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

Blocking peptide available for competition studies, sc-165929 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ZDHHC7 (G-12) is recommended for detection of ZDHHC7 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); non cross-reactive with other ZDHHC family members.

ZDHHC7 (G-12) is also recommended for detection of ZDHHC7 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for ZDHHC7 siRNA (h): sc-93249, ZDHHC7 siRNA (m): sc-155507, ZDHHC7 shRNA Plasmid (h): sc-93249-SH, ZDHHC7 shRNA Plasmid (m): sc-155507-SH, ZDHHC7 shRNA (h) Lentiviral Particles: sc-93249-V and ZDHHC7 shRNA (m) Lentiviral Particles: sc-155507-V.

Molecular Weight of ZDHHC7 isoforms: 39/35 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.

PROTOCOLS

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