

CH25H (C-16): sc-107479

BACKGROUND

CH25H (cholesterol 25-hydroxylase), also known as h250H, is a 272 amino acid endoplasmic membrane protein that belongs to the sterol desaturase family. CH25H contains clusters of histidine residues essential for catalytic activity and is involved in cholesterol and lipid metabolism. CH25H catalyzes the formation of 25-hydroxycholesterol from cholesterol, leading to the repression of cholesterol biosynthetic enzymes. CH25H regulates lipid metabolism by synthesizing a corepressor that blocks sterol regulatory element binding protein (SREBP) processing. CH25H utilizes diiron cofactors to catalyze the hydroxylation of hydrophobic substrates.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CH25H (human) mapping to 10q23.31; Ch25h (mouse) mapping to 19 C1.

SOURCE

CH25H (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of CH25H 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.

Blocking peptide available for competition studies, sc-107479 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CH25H (C-16) is recommended for detection of CH25H 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).

CH25H (C-16) is also recommended for detection of CH25H in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for CH25H siRNA (h): sc-90679, CH25H siRNA (m): sc-142309, CH25H shRNA Plasmid (h): sc-90679-SH, CH25H shRNA Plasmid (m): sc-142309-SH, CH25H shRNA (h) Lentiviral Particles: sc-90679-V and CH25H shRNA (m) Lentiviral Particles: sc-142309-V.

Molecular Weight (predicted) of CH25H: 32 kDa.

Molecular Weight (observed) of CH25H: 36 kDa.

Positive Controls: mouse liver extract: sc-2256.

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.


 MONOS
 Satisfaction
 Guaranteed

Try **CH25H (1G8): sc-293256**, our highly recommended monoclonal alternative to CH25H (C-16).