

ABHD5 (N-14): sc-102286

BACKGROUND

α/β -hydrolase domains are characterized by a catalytic triad composed of a histidine, an acid and a nucleophile. ABHD5 (α/β -hydrolase domain containing 5), also known as CGI-58, NCIE2 or CDS, is a 349 amino acid protein that contains an α/β -hydrolase domain through which it conveys catalytic function. Localized to the surface of lipid droplets, ABHD5 is widely expressed and interacts with Perilipin on the surface of lipid droplets where it facilitates lipolysis, the breakdown of fat. Defects in the gene encoding ABHD5 are the cause of Chananin-Dorfman syndrome (CDS), an autosomal recessive inborn error of lipid metabolism with impaired long-chain fatty acid oxidation. CDS symptoms include congenital generalized ichthyosis, vacuolated leukocytes, hepatomegaly, myopathy, cataracts, neurosensory hearing loss and developmental delay.

CHROMOSOMAL LOCATION

Genetic locus: ABHD5 (human) mapping to 3p21.33.

SOURCE

ABHD5 (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of ABHD5 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-102286 P, (100 μ g 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.

RESEARCH USE

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

APPLICATIONS

ABHD5 (N-14) is recommended for detection of ABHD5 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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 ABHD family members.

ABHD5 (N-14) is also recommended for detection of ABHD5 in additional species, including canine and porcine.

Suitable for use as control antibody for ABHD5 siRNA (h): sc-78146, ABHD5 shRNA Plasmid (h): sc-78146-SH and ABHD5 shRNA (h) Lentiviral Particles: sc-78146-V.

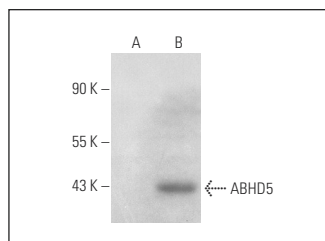
Molecular Weight of ABHD5: 39 kDa.

Positive Controls: Ramos cell lysate: sc-2216, ABHD5 (h): 293 Lysate: sc-112234 or A-431 whole cell lysate: sc-2201.

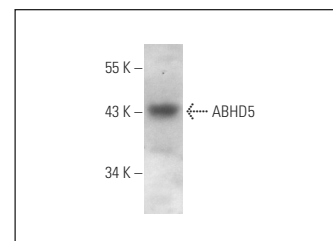
RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



ABHD5 (N-14): sc-102286. Western blot analysis of ABHD5 expression in non-transfected: sc-110760 (A) and human ABHD5 transfected: sc-112234 (B) 293 whole cell lysates.



ABHD5 (N-14): sc-102286. Western blot analysis of ABHD5 expression in Ramos whole cell lysate.

PROTOCOLS

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

MONOS
Satisfaction
Guaranteed

Try **ABHD5 (E-1): sc-376931** or **ABHD5 (C-9): sc-377270**, our highly recommended monoclonal alternatives to ABHD5 (N-14).