

AMDHD2 (N-15): sc-244902

BACKGROUND

AMDHD2 (amidohydrolase domain containing 2), also known as putative N-acetylglucosamine-6-phosphate deacetylase or GlcNAc 6-P deacetylase, is a 409 amino acid protein belonging to the NAGA family. AMDHD2 participates in N-acetylglucosamine-6-phosphate deacetylase and in hydrolase activities, acting on carbon-nitrogen bonds, but not peptide bonds. AMDHD2 likely participates in a direct regulatory relationship with microphthalmia-associated transcription factor (MITF), which is necessary for melanocyte development, and is a mediated upregulation target of MITF. Existing as three alternatively spliced isoforms, AMDHD2 is encoded by a gene that maps to human chromosome 16p13.3. Chromosome 16 encodes over 900 genes, making up nearly 3% of human cellular DNA. The rare disorder Rubinstein-Taybi syndrome, characterized by mental retardation and predisposition to tumor growth and white blood cell neoplasiasis, is associated with chromosome 16. Crohn's disease, systemic lupus erythematosus and a number of autoimmune disorders are also associated with chromosome 16.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: AMDHD2 (human) mapping to 16p13.3; Amdhd2 (mouse) mapping to 17 A3.3.

SOURCE

AMDHD2 (N-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of AMDHD2 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-244902 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

AMDHD2 (N-15) is recommended for detection of AMDHD2 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 AMDHD1.

AMDHD2 (N-15) is also recommended for detection of AMDHD2 in additional species, including bovine and porcine.

Suitable for use as control antibody for AMDHD2 siRNA (h): sc-93453, AMDHD2 siRNA (m): sc-141042, AMDHD2 shRNA Plasmid (h): sc-93453-SH, AMDHD2 shRNA Plasmid (m): sc-141042-SH, AMDHD2 shRNA (h) Lentiviral Particles: sc-93453-V and AMDHD2 shRNA (m) Lentiviral Particles: sc-141042-V.

Molecular Weight of AMDHD2: 44 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.

RESEARCH USE

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