

HDDC3 (E-15): sc-162925

BACKGROUND

Enzymes consisting of an HD domain are predicted to exhibit phosphohydrolase activity. These enzymes are suggested to participate in nucleic acid metabolism, signal transduction and possibly other functions in bacteria, archaea and eukaryotes. The HD domain consists of highly conserved residues, specifically histidines or aspartates. HDDC3 (HD domain containing 3) is a 179 amino acid protein belonging to the HDDC3 family and contains one HD domain. Existing as two alternatively spliced isoforms, HDDC3 is encoded by a gene located on human chromosome 15, which houses over 700 genes and comprises nearly 3% of the human genome. Angelman syndrome, Prader-Willi syndrome, Tay-Sachs disease and Marfan syndrome are all associated with defects in chromosome 15-localized genes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: HDDC3 (human) mapping to 15q26.1; Hddc3 (mouse) mapping to 7 D3.

SOURCE

HDDC3 (E-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of HDDC3 of human origin.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

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-162925 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

HDDC3 (E-15) is recommended for detection of HDDC3 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 HDDC2.

HDDC3 (E-15) is also recommended for detection of HDDC3 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for HDDC3 siRNA (h): sc-90180, HDDC3 siRNA (m): sc-145913, HDDC3 shRNA Plasmid (h): sc-90180-SH, HDDC3 shRNA Plasmid (m): sc-145913-SH, HDDC3 shRNA (h) Lentiviral Particles: sc-90180-V and HDDC3 shRNA (m) Lentiviral Particles: sc-145913-V.

Molecular Weight of HDDC3: 20 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.

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.