

HDAC11 (H-300): sc-292834

BACKGROUND

Histone deacetylases (HDACs) play an important role in the modification of chromatin structure and thus in the suppression and activation of transcription and cellular differentiation. There are 11 members in the HDAC family that are classified into 4 classes. Class I HDACs represent homologs of the yeast histone deacetylase RPD3, class II HDACs share strong homology with the yeast histone deacetylase HDA1, class III HDAC are closely related to the yeast SIR2 protein, and class IV HDACs comprises Histone deacetylase 11 (HDAC11)-related enzymes. HDAC11 contains 347 amino acid residues. HDAC11 contains conserved residues in the catalytic core regions shared by both class I and II mammalian HDAC enzymes. Expression of HDAC11 is high in the kidney, heart, brain, skeletal muscle, and testis, and it localizes to the cell nucleus. The human gene encoding for HDAC11 maps to chromosome 3p25.1.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: HDAC11 (human) mapping to 3p25.1; Hdac11 (mouse) mapping to 6 D1.

SOURCE

HDAC11 (H-300) is a rabbit polyclonal antibody raised against amino acids 1-300 mapping at the N-terminus of HDAC11 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.

STORAGE

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

APPLICATIONS

HDAC11 (H-300) is recommended for detection of HDAC11 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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).

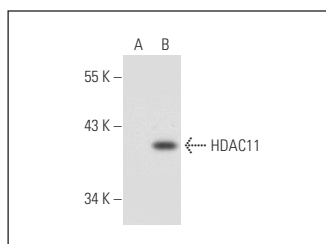
HDAC11 (H-300) is also recommended for detection of HDAC11 in additional species, including equine and bovine.

Suitable for use as control antibody for HDAC11 siRNA (h): sc-106896, HDAC11 siRNA (m): sc-145909, HDAC11 siRNA (r): sc-156104, HDAC11 shRNA Plasmid (h): sc-106896-SH, HDAC11 shRNA Plasmid (m): sc-145909-SH, HDAC11 shRNA Plasmid (r): sc-156104-SH, HDAC11 shRNA (h) Lentiviral Particles: sc-106896-V, HDAC11 shRNA (m) Lentiviral Particles: sc-145909-V and HDAC11 shRNA (r) Lentiviral Particles: sc-156104-V.

Molecular Weight of HDAC11: 39 kDa.

Positive Controls: HDAC11 (h): 293 Lysate: sc-111355.

DATA



HDAC11 (H-300): sc-292834. Western blot analysis of HDAC11 expression in non-transfected: sc-110760 (A) and human HDAC11 transfected: sc-111355 (B) 293 whole cell lysates.

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.



Try **HDAC11 (C-5): sc-390737**, our highly recommended monoclonal alternative to HDAC11 (H-300).