SANTA CRUZ BIOTECHNOLOGY, INC.

CHD9 (H-300): sc-98634

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

CHD9 (chromodomain-helicase-DNA-binding protein 9), also known as chromatin-related mesenchymal modulator (CReMM), PPAR-α-interacting complex protein 320 kDa, kismet homolog 2 or CHROM1, is a 2,897 amino acid protein belonging to the Snf2/Rad54 helicase family. The CHD family of proteins are ATP-dependent chromatin remodeling enzymes which combine chromodomains with SWI2/Snf2 ATPase/helicase motifs and DNA-binding capability. Localized to the cytoplasm and the nucleus, CHD9 contains two chromodomains, one ATP-binding helicase domain and one C-terminal helicase domain. Chromodomains are protein regions of about 40-50 amino acid residues found in proteins associated with chromatin remodeling and manipulation. The domain is highly conserved among both plants and animals and is found in a large variety of proteins from many genomes. CHD9 acts as a transcriptional co-activator for PPARα and may also be an ATP-dependent chromatin remodeling protein. CHD9 is widely expressed at low levels and is present as three isoforms produced by alternative splicing.

CHROMOSOMAL LOCATION

Genetic locus: CHD9 (human) mapping to 16q12.2; Chd9 (mouse) mapping to 8 C5.

SOURCE

CHD9 (H-300) is a rabbit polyclonal antibody raised against amino acids 225-514 mapping near the N-terminus of CHD9 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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-98634 X, 200 µg/0.1 ml.

APPLICATIONS

CHD9 (H-300) is recommended for detection of CHD9 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).

CHD9 (H-300) is also recommended for detection of CHD9 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for CHD9 siRNA (h): sc-72886, CHD9 siRNA (m): sc-72887, CHD9 shRNA Plasmid (h): sc-72886-SH, CHD9 shRNA Plasmid (m): sc-72887-SH, CHD9 shRNA (h) Lentiviral Particles: sc-72886-V and CHD9 shRNA (m) Lentiviral Particles: sc-72887-V.

CHD9 (H-300) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

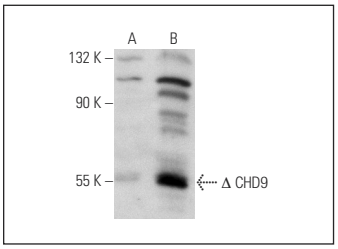
Molecular Weight of CHD9: 326 kDa.

Positive Controls: CHD9 (h): 293T Lysate: sc-114993 or LADMAC whole cell lysate: sc-364189.

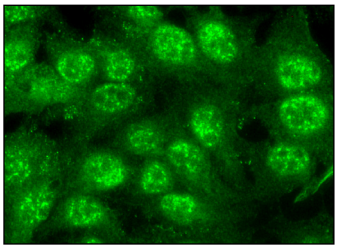
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



CHD9 (H-300): sc-98634. Western blot analysis of CHD9 expression in non-transfected: sc-117752 (**A**) and truncated human CHD9 transfected: sc-114993 (**B**) 293T whole cell lysates.



CHD9 (H-300): sc-98634. Immunofluorescence staining of formalin-fixed Hep G2 cells showing nuclear localization.

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.