

CHD5 (S-15): sc-68009

BACKGROUND

Chromodomain helicase DNA binding protein 5, also known as CHD5, is a member of the SNF2/RAD54 helicase family of chromatin remodeling and DNA-binding proteins (CDH proteins). Heavily expressed in both fetal and adult brain, CHD5 plays a role in nervous system development and acts as a tumor suppressor via the Arf/p53 pathway. CHD5, along with other chromodomain proteins, forms remodeling complexes, such as NuRD, that promote normal neuroblast maturation and are thought to prevent over expression of neuronal cells. Errors in these chromatin remodeling complexes can leave the cell in a perpetual state of growth, preventing differentiation and leading to tumor formation. Due to the importance of the CHD proteins in proper brain development, deletions in the gene encoding CHD5 are commonly found in neuroblastomas, suggesting that CHD5 deficiency may lead to malignant cell transformation and metastasis.

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CHROMOSOMAL LOCATION

Genetic locus: CHD5 (human) mapping to 1p36.31; Chd5 (mouse) mapping to 4 E2.

SOURCE

CHD5 (S-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of CHD5 of human origin.

RESEARCH USE

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

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-68009 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-68009 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CHD5 (S-15) is recommended for detection of CHD5 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).

CHD5 (S-15) is also recommended for detection of CHD5 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for CHD5 siRNA (h): sc-62102, CHD5 siRNA (m): sc-62103, CHD5 shRNA Plasmid (h): sc-62102-SH, CHD5 shRNA Plasmid (m): sc-62103-SH, CHD5 shRNA (h) Lentiviral Particles: sc-62102-V and CHD5 shRNA (m) Lentiviral Particles: sc-62103-V.

CHD5 (S-15) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of CHD5: 223 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.

PROTOCOLS

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



Try **CHD5 (D-10): sc-271248**, our highly recommended monoclonal alternative to CHD5 (S-15).