

# CHCHD7 (D-17): sc-87638

## BACKGROUND

CHCHD7 (coiled-coil-helix-coiled-coil-helix domain-containing protein 7) is an 85 amino acid protein that contains one CHCH domain. A chromosomal translocation involving the CHCHD7 gene and PLAG1 gene is found in salivary gland pleiomorphic adenomas, the most common benign epithelial tumors of the salivary gland. There are three isoforms of CHCHD7 that are produced as a result of alternative splicing events. The gene encoding CHCHD7 maps to human chromosome 8, which is made up of nearly 146 million bases and encodes about 800 genes. Translocation of portions of chromosome 8 with amplifications of the c-Myc gene are found in some leukemias and lymphomas, and are typically associated with a poor prognosis. Portions of chromosome 8 have been linked to schizophrenia and bipolar disorder. Trisomy 8, also known as Warkany syndrome 2, most often results in early miscarriage but is occasionally seen in a mosaic form in surviving patients who suffer to a varying degree from a number of symptoms, including retarded mental and motor development, and certain facial and developmental defects.

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## CHROMOSOMAL LOCATION

Genetic locus: CHCHD7 (human) mapping to 8q12.1; Chchd7 (mouse) mapping to 4 A1.

## SOURCE

CHCHD7 (D-17) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of CHCHD7 of human origin.

## PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-87638 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

CHCHD7 (D-17) is recommended for detection of CHCHD7 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 CHCHD6.

CHCHD7 (D-17) is also recommended for detection of CHCHD7 in additional species, including canine.

Suitable for use as control antibody for CHCHD7 siRNA (h): sc-77468, CHCHD7 siRNA (m): sc-142319, CHCHD7 shRNA Plasmid (h): sc-77468-SH, CHCHD7 shRNA Plasmid (m): sc-142319-SH, CHCHD7 shRNA (h) Lentiviral Particles: sc-77468-V and CHCHD7 shRNA (m) Lentiviral Particles: sc-142319-V.

Molecular Weight of CHCHD7 isoforms: 10/12/8 kDa.

## 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) 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.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.