

# ZCCHC17 (N-13): sc-160935

## BACKGROUND

Zinc-finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. ZCCHC17 (zinc finger, CCHC domain containing 17), also known as PS1D (putative S1 RNA-binding domain protein), Pnn (Pinin)-interacting nucleolar protein or pNO40, is a 241 amino acid protein that associates with both Pinin and the 60S ribosomal subunit. Localizing to nucleolus, ZCCHC17 is ubiquitously expressed and has been suggested to play a role in ribosome maturation and biogenesis. ZCCHC17 contains one CCHC-type zinc finger, a S1 motif domain and exists as two alternatively spliced isoforms that map to human chromosome 1p35.2. Human chromosome 1 spans 260 million base pairs, contains over 3,000 genes, comprises nearly 8% of the human genome and houses a large number of disease-associated genes, including those that are involved in Stickler syndrome, Parkinson's disease, Gaucher disease and Usher syndrome.

## REFERENCES

1. Eudy, J.D., et al. 1998. Mutation of a gene encoding a protein with extracellular matrix motifs in Usher syndrome type IIa. *Science* 280: 1753-1757.
2. Lau, E.K., et al. 1999. Two novel polymorphic sequences in the glucocerebrosidase gene region enhance mutational screening and founder effect studies of patients with Gaucher disease. *Hum. Genet.* 104: 293-300.
3. Zhang, Q.H., et al. 2000. Cloning and functional analysis of cDNAs with open reading frames for 300 previously undefined genes expressed in CD34<sup>+</sup> hematopoietic stem/progenitor cells. *Genome Res.* 10: 1546-1560.
4. Gueydan, C., et al. 2002. Identification of ribosomal proteins specific to higher eukaryotic organisms. *J. Biol. Chem.* 277: 45034-45040.
5. Chang, W.L., et al. 2003. Molecular characterization of a novel nucleolar protein, pNO40. *Biochem. Biophys. Res. Commun.* 307: 569-577.
6. Betarbet, R., et al. 2008. FAS-associated factor 1 and Parkinson's disease. *Neurobiol. Dis.* 31: 309-315.
7. Yokoi, T., et al. 2009. Analysis of the vitreous membrane in a case of type 1 Stickler syndrome. *Graefes Arch. Clin. Exp. Ophthalmol.* 247: 715-718.

## CHROMOSOMAL LOCATION

Genetic locus: ZCCHC17 (human) mapping to 1p35.2; Zcchc17 (mouse) mapping to 4 D2.2.

## SOURCE

ZCCHC17 (N-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of ZCCHC17 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.

Blocking peptide available for competition studies, sc-160935 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

ZCCHC17 (N-13) is recommended for detection of ZCCHC17 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); non cross-reactive with other ZCCHC family members.

ZCCHC17 (N-13) is also recommended for detection of ZCCHC17 in additional species, including equine and bovine.

Suitable for use as control antibody for ZCCHC17 siRNA (h): sc-88347, ZCCHC17 siRNA (m): sc-155475, ZCCHC17 shRNA Plasmid (h): sc-88347-SH, ZCCHC17 shRNA Plasmid (m): sc-155475-SH, ZCCHC17 shRNA (h) Lentiviral Particles: sc-88347-V and ZCCHC17 shRNA (m) Lentiviral Particles: sc-155475-V.

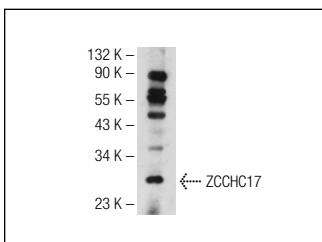
Molecular Weight of ZCCHC17: 28 kDa.

Positive Controls: ZCCHC17 (h3): 293T Lysate: sc-174489, mouse brain extract: sc-2253 or NIH/3T3 nuclear extract: sc-2138.

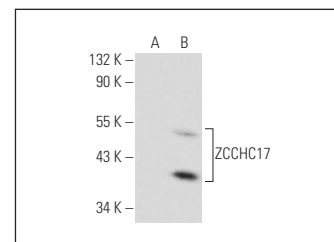
## RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

## DATA



ZCCHC17 (N-13): sc-160935. Western blot analysis of ZCCHC17 expression in mouse brain tissue extract.



ZCCHC17 (N-13): sc-160935. Western blot analysis of ZCCHC17 expression in non-transfected (A) and human ZCCHC17 transfected: sc-174489 (B) 293T whole cell lysates.

## 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.