SANTA CRUZ BIOTECHNOLOGY, INC.

# ZNF365 (C-12): sc-132532

SANTA CRUZ BIOTECHNOLOGY

*The Power to Question*

## 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. The majority of zinc finger proteins contain a Krüppel-type DNA binding domain and a KRAB domain, which is thought to interact with KAP1, thereby recruiting histone modifying proteins. ZNF365 (zinc finger protein 365) is a 407 amino acid protein with its expression restricted to brain, lung, liver, placenta, kidney and pancreas. Overexpression of ZNF365 causes abnormal mitosis and mutant ZNF365 lacking a C-terminus disrupts γ Tubulin localization to the nucleus. Alternative splicing results in at least four different isoforms of ZNF365, designated ZNF365A-D. A mutation in the gene encoding ZNF365 disrupts the expression of ZNF365D (also known as Talanin) and is involved in susceptibilty to uric acid nephrolithiasis, a multifactorial urinary tract stone disease that is influenced by genetics and environmental factors.

## REFERENCES


1. Payre, F. and Vincent, A. 1988. Finger proteins and DNA-specific recognition: distinct patterns of conserved amino acids suggest different evolutionary modes. FEBS Lett. 234: 245-250.
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3. Rosenfeld, R. and Margalit, H. 1993. Zinc fingers: conserved properties that can distinguish between spurious and actual DNA-binding motifs. J. Biomol. Struct. Dyn. 11: 557-570.
4. Ombra, M.N., et al. 2001. Identification of a new candidate locus for uric acid nephrolithiasis. Am. J. Hum. Genet. 68: 1119-1129.
5. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 605990. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
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7. Gianfrancesco, F., et al. 2004. Emergence of Talanin protein associated with human uric acid nephrolithiasis in the Hominidae lineage. Gene 339: 131-138.
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## CHROMOSOMAL LOCATION

Genetic locus: ZNF365 (human) mapping to 10q21.2; Zfp365 (mouse) mapping to 10 B5.1.

## SOURCE

ZNF365 (C-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of ZNF365 of human origin.

## STORAGE

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

## 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-132532 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

ZNF365 (C-12) is recommended for detection of ZNF365 isoforms 1, 5 and 6 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 ZNF 365 isoform 2, 3 or 4.

Suitable for use as control antibody for ZNF365 siRNA (h): sc-90549, ZNF365 siRNA (m): sc-155700, ZNF365 shRNA Plasmid (h): sc-90549-SH, ZNF365 shRNA Plasmid (m): sc-155700-SH, ZNF365 shRNA (h) Lentiviral Particles: sc-90549-V and ZNF365 shRNA (m) Lentiviral Particles: sc-155700-V.

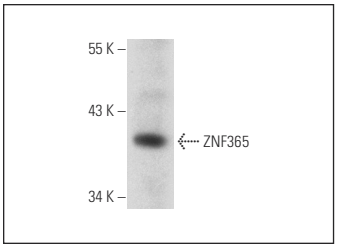
Molecular Weight of ZNF365: 47 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227 or mouse brain extract: sc-2253.

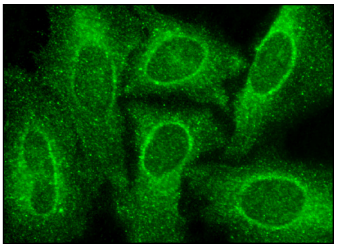
## RECOMMENDED SECONDARY REAGENTS

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




ZNF365 (C-12): sc-132532. Western blot analysis of ZNF365 expression in mouse brain tissue extract.



ZNF365 (C-12): sc-132532. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization.

## RESEARCH USE

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