



# ZNF365 (O-25): sc-102211

## 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  $\gamma$  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 susceptibility to uric acid nephrolithiasis, a multifactorial urinary tract stone disease that is influenced by genetics and environmental factors.

## REFERENCES

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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.
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6. Gianfrancesco, F., et al. 2003. Identification of a novel gene and a common variant associated with uric acid nephrolithiasis in a Sardinian genetic isolate. *Am. J. Hum. Genet.* 72: 1479-1491.
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8. Gianfrancesco, F., et al. 2005. Multifactorial disorder: molecular and evolutionary insights of uric acid nephrolithiasis. *Minerva Med.* 96: 409-416.

## CHROMOSOMAL LOCATION

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

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

## SOURCE

ZNF365 (O-25) is a purified rabbit polyclonal antibody raised against ZNF365 of human origin.

## PRODUCT

Each vial contains 100  $\mu$ g of IgG in PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

## APPLICATIONS

ZNF365 (O-25) is recommended for detection of ZNF365 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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.

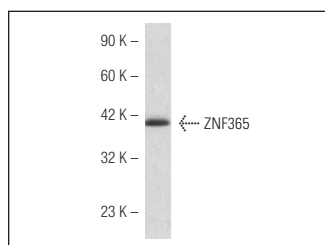
Molecular Weight of ZNF365: 47 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

## 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).

## DATA



ZNF365 (O-25): sc-102211. Western blot analysis of ZNF365 expression in Hep G2 whole cell lysate.

## RESEARCH USE

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