

# ZNF397OS (K-18): sc-249547

## BACKGROUND

ZNF397OS (zinc finger protein 397OS), also known as ZSCAN30 (zinc finger and SCAN domain-containing protein 30), is a 494 amino acid nuclear protein that exists as 3 alternatively spliced isoforms and may be involved in transcriptional regulation. Containing one SCAN box domain and seven C<sub>2</sub>H<sub>2</sub>-type zinc fingers, ZNF397OS belongs to the Krüppel C<sub>2</sub>H<sub>2</sub>-type zinc finger protein family. The gene that encodes ZNF397OS consists of approximately 39,174 bases and maps to human chromosome 18q12.2. Housing over 300 protein-coding genes, chromosome 18 contains nearly 76 million bases. There are a variety of diseases associated with defects in chromosome 18-localized genes, some of which include Trisomy 18 (also known as Edwards syndrome), Niemann-Pick disease, hereditary hemorrhagic telangiectasia, erythropoietic protoporphyria and follicular lymphomas.

## REFERENCES

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4. Petek, E., et al. 2003. Characterisation of a 19-year-old "long-term survivor" with Edwards syndrome. *Genet. Couns.* 14: 239-244.
5. Raghavan, S.C., et al. 2004. A non-B-DNA structure at the Bcl-2 major breakpoint region is cleaved by the RAG complex. *Nature* 428: 88-93.
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## CHROMOSOMAL LOCATION

Genetic locus: ZSCAN30 (human) mapping to 18q12.2.

## SOURCE

ZNF397OS (K-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ZNF397OS 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-249547 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

ZNF397OS (K-18) is recommended for detection of ZNF397OS of 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).

Molecular Weight of ZNF397OS isoforms: 56/34/25 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.

## 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.