

# ZNF296 (L-21): sc-102209



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. As a member of the Krüppel C<sub>2</sub>H<sub>2</sub>-type zinc finger protein family, ZNF342 (zinc finger protein 342), also known as zinc finger protein 296, is a 475 amino acid nuclear protein that contains 6 C<sub>2</sub>H<sub>2</sub>-type zinc fingers through which it is thought to be involved in DNA-binding and transcriptional regulation.

## 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.
2. Berg, J.M. 1988. Proposed structure for the zinc-binding domains from transcription factor IIIA and related proteins. *Proc. Natl. Acad. Sci. USA* 85: 99-102.

## CHROMOSOMAL LOCATION

Genetic locus: ZNF296 (human) mapping to 19q13.32; Zfp296 (mouse) mapping to 7 A3.

## SOURCE

ZNF296 (L-21) is a purified rabbit polyclonal antibody raised against ZNF296 of human origin.

## PRODUCT

Each vial contains 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

## RESEARCH USE

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

## APPLICATIONS

ZNF296 (L-21) is recommended for detection of ZNF296 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for ZNF296 siRNA (h): sc-97179, ZNF296 shRNA Plasmid (h): sc-97179-SH and ZNF296 shRNA (h) Lentiviral Particles: sc-97179-V.

Molecular Weight of ZNF296: 51 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, KNRK whole cell lysate: sc-2214 or RAW 264.7 whole cell lysate: sc-2211.

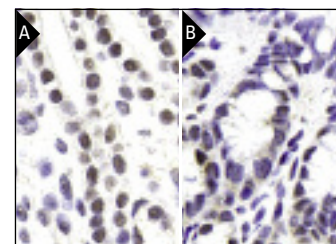
## RECOMMENDED SECONDARY REAGENTS

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). 3) 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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

## DATA



ZNF296 (L-21): sc-102209. Western blot analysis of ZNF296 expression in KNRK (A) and RAW 264.7 (B) whole cell lysates.



ZNF296 (L-21): sc-102209. Immunoperoxidase staining of formalin fixed, paraffin-embedded human kidney tissue (A) and human stomach tissue (B) showing nuclear staining.

## 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.

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Try **ZNF296 (C-12): sc-514868**, our highly recommended monoclonal alternative to ZNF296 (L-21).