

# ZNF354C (L-19): sc-249532

## 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. ZNF354C (zinc finger protein 354C), also known as KID3, is a 554 amino acid protein that localizes to the nucleus and contains 1 KRAB domain and 11 C<sub>2</sub>H<sub>2</sub>-type zinc fingers. Expressed in kidney and skeletal muscle, as well as in the developing brain, ZNF354C interacts with RUNX2 and functions as a transcriptional repressor that suppresses the osteogenic effects of RUNX2. ZNF354C is therefore thought to play a role in osteoblastic differentiation.

## REFERENCES

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4. Gao, L., Sun, C., Qiu, H.L., Liu, H., Shao, H.J., Wang, J. and Li, W.X. 2004. Cloning and characterization of a novel human zinc finger gene, hKid3, from a C<sub>2</sub>H<sub>2</sub>-ZNF enriched human embryonic cDNA library. *Biochem. Biophys. Res. Commun.* 325: 1145-1152.
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7. Ding, G., Lorenz, P., Kreutzer, M., Li, Y. and Thiesen, H.J. 2009. SysZNF: the C<sub>2</sub>H<sub>2</sub> zinc finger gene database. *Nucleic Acids Res.* 37: D267-D273.

## CHROMOSOMAL LOCATION

Genetic locus: Zfp354c (mouse) mapping to 11 B1.3.

## SOURCE

ZNF354C (L-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ZNF354C of mouse 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-249532 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## STORAGE

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

## APPLICATIONS

ZNF354C (L-19) is recommended for detection of ZNF354C of mouse and rat 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); non cross-reactive with ZNF354A or ZNF354B.

Suitable for use as control antibody for ZNF354C siRNA (m): sc-155696, ZNF354C shRNA Plasmid (m): sc-155696-SH and ZNF354C shRNA (m) Lentiviral Particles: sc-155696-V.

Molecular Weight of ZNF354C: 65 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.