

ZNF354A/B (H-60): sc-98316

BACKGROUND

ZNF354A, also called EZNF, KID-1 or TCF17, belongs to the Krüppel C₂H₂-type zinc-finger family of proteins that contain KRAB domains and act as transcriptional regulators. Expressed primarily in adult kidney, ZNF354A functions as a transcriptional repressor that plays a role in late renal development and is suppressed after renal ischemia. The N-terminus of ZNF354A contains the KRAB domain which confers transcriptional repressor activity, while the C-terminus contains multiple C₂H₂-zinc fingers. ZNF354A is localized to the nucleolus and is thought to specifically influence development of the proximal tubule by shutting off dispensable or inhibitory genes. Reduced ZNF354A expression prevents proper cell differentiation and may, therefore, be implicated in renal carcinoma. ZNF354B (zinc finger protein 354B) is a 612 amino acid nuclear protein that also belongs to the Krüppel C₂H₂-type zinc-finger family and is thought to play a role in transcriptional regulation events.

REFERENCES

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2. Omori, Y., Kyushiki, H., Takeda, S., Suzuki, M., Kawai, A., Fujiwara, T., Takahashi, E. and Nakamura, Y. 1998. Cloning, expression and mapping of a novel human zinc finger gene TCF17 homologous to rodent Kid1. *Cytogenet. Cell Genet.* 78: 285-288.
3. Witzgall, R., Obermüller, N., Bölit, U., Calvet, J.P., Walker, C., Kriz, W., Gretz, N. and Bonventre, J.V. 1999. Kid-1 expression is high in differentiated renal proximal tubule cells and suppressed in cyst epithelia. *Am. J. Physiol.* 275: F928-F937.
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CHROMOSOMAL LOCATION

Genetic locus: ZNF354A/ZNF354B (human) mapping to 5q35.3; Zfp354a/Zfp354b (mouse) mapping to 11 B1.3.

SOURCE

ZNF354A/B (H-60) is a rabbit polyclonal antibody raised against amino acids 265-324 mapping within an internal region of ZNF354A of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

ZNF354A/B (H-60) is recommended for detection of ZNF354A and ZNF354B 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).

ZNF354A/B (H-60) is also recommended for detection of ZNF354A and ZNF354B in additional species, including equine, canine, bovine and porcine.

Molecular Weight of ZNF354A: 69 kDa.

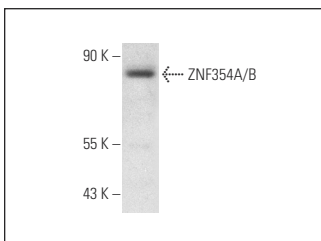
Molecular Weight of ZNF354B: 71 kDa.

Positive Controls: HeLa nuclear extract: sc-2120.

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.

DATA



ZNF354A/B (H-60): sc-98316. Western blot analysis of ZNF354A/B expression in HeLa nuclear extract.

STORAGE

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

RESEARCH USE

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

MONOS
Satisfaction
Guaranteed

Try **ZNF354A (149C1a): sc-81140**, our highly recommended monoclonal alternative to ZNF354A/B (H-60).