

ZNF394 (J-21): sc-102214



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. As a member of the Krüppel C₂H₂-type zinc finger protein family, ZNF394 (zinc finger protein 394), also known as zinc finger and SCAN domain-containing protein 14 (ZKSCAN14), is a 561 amino acid transcriptional regulator. ZNF394 localizes to the nucleus and is specifically expressed in heart, skeletal muscle and brain in human adult tissues. ZNF394 contains seven C₂H₂-type zinc fingers, a SCAN domain and a KRAB domain. ZNF394 functions as a transcriptional repressor for the c-Jun transcription factor, suggesting that ZNF394 is a new transcriptional repressor in mitogen-activated protein kinase signaling pathways. Additionally, ZNF394 may play an important role in cell growth and proliferation signaling pathways.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ZNF394 (human) mapping to 7q22.1.

SOURCE

ZNF394 (J-21) is a purified rabbit polyclonal antibody raised against ZNF394 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 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

ZNF394 (J-21) is recommended for detection of ZNF394 of 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 ZNF394 siRNA (h): sc-89763, ZNF394 shRNA Plasmid (h): sc-89763-SH and ZNF394 shRNA (h) Lentiviral Particles: sc-89763-V.

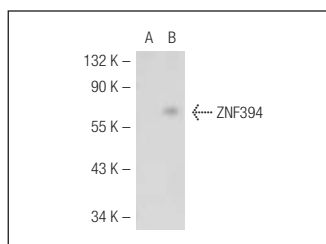
Molecular Weight of ZNF394: 64 kDa.

Positive Controls: or ZNF394 (h): 293T Lysate: sc-116319.

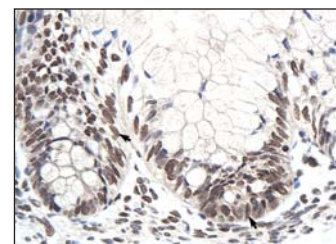
RECOMMENDED SECONDARY REAGENTS

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



ZNF394 (J-21): sc-102214. Western blot analysis of ZNF394 expression in non-transfected: sc-117752 (A) and human ZNF394 transfected: sc-116319 (B) 293T whole cell lysates.



ZNF394 (J-21): sc-102214. Immunoperoxidase staining of formalin fixed, paraffin-embedded human intestine tissue showing nuclear staining.

RESEARCH USE

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