

ZNF449 (K-15): sc-249574



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 C₂H₂-type zinc-finger protein family, ZNF449 (zinc finger protein 449), also known as ZSCAN19 (zinc finger and SCAN domain-containing protein 19), is a 518 amino acid protein that contains one SCAN box domain and 7 C₂H₂-type zinc fingers. ZNF449 is ubiquitously expressed and localizes to the nucleus. There are three isoforms of ZNF449 that are produced as a result of alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ZNF449 (human) mapping to Xq26.3; Zfp449 (mouse) mapping to X A5.

SOURCE

ZNF449 (K-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ZNF449 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.

Blocking peptide available for competition studies, sc-249574 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ZNF449 (K-15) is recommended for detection of ZNF449 of mouse, rat and 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); non cross-reactive with other ZNF family members.

Suitable for use as control antibody for ZNF449 siRNA (h): sc-91347, ZNF449 siRNA (m): sc-155722, ZNF449 shRNA Plasmid (h): sc-91347-SH, ZNF449 shRNA Plasmid (m): sc-155722-SH, ZNF449 shRNA (h) Lentiviral Particles: sc-91347-V and ZNF449 shRNA (m) Lentiviral Particles: sc-155722-V.

Molecular Weight (predicted) of ZNF449: 60 kDa.

Molecular Weight (observed) of ZNF449: 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.

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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.