

ZNF774 (N-15): sc-324753

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. ZNF774 (zinc finger protein 774) is a 483 amino acid protein that localizes to the nucleus and contains 12 C₂H₂-type zinc fingers and a KRAB domain. One of several members of the Krüppel C₂H₂-type zinc-finger protein family, ZNF774 is thought to be involved in transcriptional regulation events. The gene encoding ZNF774 maps to human chromosome 15, which houses over 700 genes and comprises nearly 3% of the human genome. Angelman syndrome, Prader-Willi syndrome, Tay-Sachs disease and Marfan syndrome are all associated with defects in chromosome 15-localized genes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ZNF774 (human) mapping to 15q26.1.

SOURCE

ZNF774 (N-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of ZNF774 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 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-324753 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ZNF774 (N-15) is recommended for detection of ZNF774 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other zinc finger proteins.

ZNF774 (N-15) is also recommended for detection of ZNF774 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for ZNF774 siRNA (h): sc-90307, ZNF774 shRNA Plasmid (h): sc-90307-SH and ZNF774 shRNA (h) Lentiviral Particles: sc-90307-V.

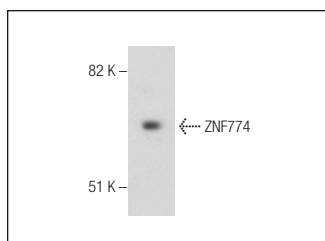
Molecular Weight of ZNF774: 55 kDa.

Positive Controls: COLO 320DM nuclear extract.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



ZNF774 (N-15): sc-324753. Western blot analysis of ZNF774 expression in COLO 320DM nuclear extract.

RESEARCH USE

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