

# ZNF414 (C-15): sc-249554

## BACKGROUND

ZNF414 (zinc finger protein 414) is a 312 amino acid nuclear protein that may be involved in transcriptional regulation. Containing three C<sub>2</sub>H<sub>2</sub>-type zinc fingers, ZNF414 belongs to the Krüppel C<sub>2</sub>H<sub>2</sub>-type zinc-finger protein family. The gene that encodes ZNF414 consists of approximately 3,587 bases and maps to human chromosome 19p13.2. Consisting of around 63 million bases with more than 1,400 genes, chromosome 19 makes up over 2% of the human genome. It is the genetic home for a number of immunoglobulin superfamily members including the killer cell and leukocyte Ig-like receptors, a number of ICAMs, the CEACAM and PSG families, and Fc $\alpha$  receptors. Key genes for eye color and hair color also map to chromosome 19. Peutz-Jeghers syndrome, spinocerebellar ataxia type 6, the stroke disorder CADASIL, hypercholesterolemia and Insulin-dependent diabetes have been linked to chromosome 19. Translocations with chromosome 19 and chromosome 14 can be seen in some lymphoproliferative disorders and typically involve the proto-oncogene BCL3.

## REFERENCES

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- Barrow, A.D. and Trowsdale, J. 2008. The extended human leukocyte receptor complex: diverse ways of modulating immune responses. *Immunol. Rev.* 224: 98-123.

## CHROMOSOMAL LOCATION

Genetic locus: ZNF414 (human) mapping to 19p13.2; Zfp414 (mouse) mapping to 17 B1.

## SOURCE

ZNF414 (C-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of ZNF414 of human origin.

## RESEARCH USE

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

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-249554 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

ZNF414 (C-15) is recommended for detection of ZNF414 of human origin and ZFP414 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).

Suitable for use as control antibody for ZNF414 siRNA (h): sc-97734, ZFP414 siRNA (m): sc-155557, ZNF414 shRNA Plasmid (h): sc-97734-SH, ZFP414 shRNA Plasmid (m): sc-155557-SH, ZNF414 shRNA (h) Lentiviral Particles: sc-97734-V and ZFP414 shRNA (m) Lentiviral Particles: sc-155557-V.

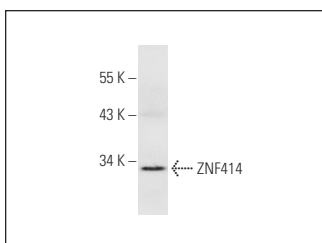
Molecular Weight of ZNF414: 33 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

## 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.

## DATA



ZNF414 (C-15): sc-249554. Western blot analysis of ZNF414 expression in Jurkat whole cell lysate.

## STORAGE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.