

# RNF126 (G-13): sc-240831

## BACKGROUND

The RING-type zinc finger motif is present in a number of viral and eukaryotic proteins and is made of a conserved cysteine-rich domain that is able to bind two zinc atoms. Proteins that contain this conserved domain are generally involved in protein-protein interactions and protein-DNA interactions. RNF126 (RING finger protein 126) contains one RING-type zinc finger domain and is known to interact with TRAF6 (a ubiquitin ligase) and BAT3 (an apoptotic regulator). RNF126 shares 46% overall amino acid identity with ZNF364 (an E3 ligase that is closely linked to human breast cancer) and 75% amino acid identity within the RING domain. This suggests that RNF126 may have a similar function to that of ZNF364. Due to alternative splicing events, two isoforms exist for RNF126.

## REFERENCES

1. Saurin, A.J., Borden, K.L., Boddy, M.N. and Freemont, P.S. 1996. Does this have a familiar RING? Trends Biochem. Sci. 21: 208-214.
2. Bouwmeester, T., Bauch, A., Ruffner, H., Angrand, P.O., Bergamini, G., Croughton, K., Cruciat, C., Eberhard, D., Gagneur, J., Ghidelli, S., Hopf, C., Huhse, B., Mangano, R., Michon, A.M., Schirle, M., Schlegl, J., et al. 2004. A physical and functional map of the human TNF- $\alpha$ /NF $\kappa$ B signal transduction pathway. Nat. Cell Biol. 6: 97-9105.
3. Lehner, B., Semple, J.I., Brown, S.E., Counsell, D., Campbell, R.D. and Sanderson, C.M. 2004. Analysis of a high-throughput yeast two-hybrid system and its use to predict the function of intracellular proteins encoded within the human MHC class III region. Genomics 83: 153-167.
4. Ishibashi, T., Usami, T., Fujie, M., Azumi, K., Satoh, N. and Fujiwara, S. 2005. Oligonucleotide-based microarray analysis of retinoic acid target genes in the protochordate, *Ciona intestinalis*. Dev. Dyn. 233: 1571-1578.
5. Burger, A., Amemiya, Y., Kitching, R. and Seth, A.K. 2006. Novel RING E3 ubiquitin ligases in breast cancer. Neoplasia 8: 689-695.

## CHROMOSOMAL LOCATION

Genetic locus: RNF126 (human) mapping to 19p13.3; Rnf126 (mouse) mapping to 10 C1.

## SOURCE

RNF126 (G-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of RNF126 of human origin.

## 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-240831 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-240831 X, 200  $\mu$ g/0.1 ml.

## RESEARCH USE

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

## APPLICATIONS

RNF126 (G-13) is recommended for detection of RNF126 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), 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); non cross-reactive with other RNF family members.

RNF126 (G-13) is also recommended for detection of RNF126 in additional species, including bovine.

Suitable for use as control antibody for RNF126 siRNA (h): sc-97281, RNF126 siRNA (m): sc-153008, RNF126 shRNA Plasmid (h): sc-97281-SH, RNF126 shRNA Plasmid (m): sc-153008-SH, RNF126 shRNA (h) Lentiviral Particles: sc-97281-V and RNF126 shRNA (m) Lentiviral Particles: sc-153008-V.

RNF126 (G-13) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

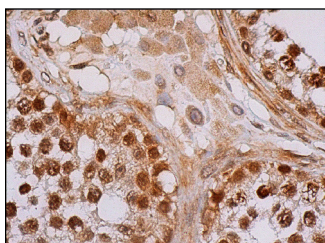
Molecular Weight of RNF126: 36 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210.

## 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<sup>™</sup> compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> 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<sup>™</sup> Mounting Medium: sc-24941. 3) Immunohistochemistry: use ImmunoCruz<sup>™</sup>: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

## DATA



RNF126 (G-13): sc-240831. Immunoperoxidase staining of formalin fixed, paraffin-embedded human testis tissue showing nuclear and cytoplasmic staining of cells in seminiferous ducts and Leydig cells.

## STORAGE

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