

ZNF277 (E-13): sc-104774

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. ZNF277 (zinc finger protein 277), also known as NRIF4 or ZNF277P, is a 438 amino acid protein that contains 2 C₂H₂-type zinc fingers and is thought to localize to the nucleus. Expressed in fetal liver, lymph node, spleen and peripheral blood leukocytes, ZNF277 may function as a transcriptional repressor that plays a role in cell growth and differentiation.

REFERENCES

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- Rousseau-Merck, M.F., et al. 2002. The KOX zinc-finger genes: genome wide mapping of 368 ZNF PAC clones with zinc-finger gene clusters predominantly in 23 chromosomal loci are confirmed by human sequences annotated in Ensembl. *Cytogenet. Genome Res.* 98: 147-153.
- Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 605465. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
- Nakamura, M., et al. 2004. A novel subfamily of zinc-finger genes involved in embryonic development. *J. Cell. Biochem.* 93: 887-895.
- Englbrecht, C.C., et al. 2004. Conservation, diversification and expansion of C₂H₂ zinc-finger proteins in the *Arabidopsis thaliana* genome. *BMC Genomics* 5: 39-39.
- O'Geen, H., et al. 2007. Genome-wide analysis of KAP1 binding suggests autoregulation of KRAB-ZNFs. *PLoS Genet.* 3: e89.

CHROMOSOMAL LOCATION

Genetic locus: ZNF277 (human) mapping to 7q31.1; Zfp277 (mouse) mapping to 12 B1.

SOURCE

ZNF277 (E-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ZNF277 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-104774 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

ZNF277 (E-13) is recommended for detection of ZNF277 of mouse, rat and 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).

ZNF277 (E-13) is also recommended for detection of ZNF277 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for ZNF277 siRNA (h): sc-89868, ZNF277 siRNA (m): sc-106713, ZNF277 shRNA Plasmid (h): sc-89868-SH, ZNF277 shRNA Plasmid (m): sc-106713-SH, ZNF277 shRNA (h) Lentiviral Particles: sc-89868-V and ZNF277 shRNA (m) Lentiviral Particles: sc-106713-V.

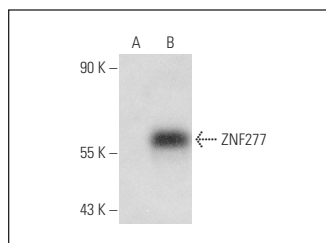
Molecular Weight of ZNF277: 52 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204 or ZNF277 (m): 293T Lysate: sc-124784.

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



ZNF277 (E-13): sc-104774. Western blot analysis of ZNF277 expression in non-transfected: sc-117752 (A) and mouse ZNF277 transfected: sc-124784 (B) 293T whole cell lysates.

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.