# ZNF651 (N-12): sc-100269



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  $C_2H_2$ -type zinc-finger protein family, ZNF651 (Zinc finger protein 651), also known as ZBTB47 (Zinc finger and BTB domain-containing protein 47), is a 371 amino acid nuclear protein that contains nine  $C_2H_2$ -type zinc fingers. The gene encoding ZNF651 maps to human chromosome 3, which is made up of about 214 million bases encoding over 1,100 genes, including a chemokine receptor (CKR) gene cluster and a variety of human cancer-related gene loci. Marfan syndrome, porphyria, von Hippel-Lindau syndrome, osteogenesis imperfecta and Charcot-Marie-Tooth disease are a few of the numerous genetic diseases associated with chromosome 3.

# **REFERENCES**

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## CHROMOSOMAL LOCATION

Genetic locus: ZBTB47 (human) mapping to 3p22.1.

## **SOURCE**

ZNF651 (N-12) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of ZNF651 of human origin.

# **PRODUCT**

Each vial contains 100  $\mu g$  IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-100269 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **APPLICATIONS**

ZNF651 (N-12) is recommended for detection of ZNF651 of human and rat 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)

Suitable for use as control antibody for ZNF651 siRNA (h): sc-78249, ZNF651 shRNA Plasmid (h): sc-78249-SH and ZNF651 shRNA (h) Lentiviral Particles: sc-78249-V.

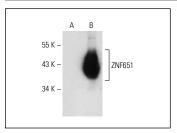
Molecular Weight of ZNF651: 42 kDa.

Positive Controls: ZNF651 (h): 293T Lysate: sc-113967.

## **RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

#### DATA



ZNF651 (N-12): sc-100269. Western blot analysis of ZNF651 expression in non-transfected: sc-117752 (A) and human ZNF651 transfected: sc-113967 (B) 293T whole cell Ivsates.

# **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.