# SANTA CRUZ BIOTECHNOLOGY, INC.

# ZNF440 (C-12): sc-132958



#### 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. ZNF440 is a 595 amino acid transcriptional regulator belonging to the Krüppel  $C_2H_2$ -type zinc-finger protein family. ZNF440 localizes to the nucleus and contains twelve  $C_2H_2$ -type zinc fingers and a KRAB domain. ZNF440 is encoded by a gene located on chromosome 19 which contains a diversity of interesting genes and is recognized for having the greatest gene density of the human chromosomes. 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 family, and Fc receptors. Key genes for eye color and hair color also map to chromosome 19.

### REFERENCES

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- Abrink, M., et al. 1995. Isolation of cDNA clones for 42 different Krüppelrelated zinc finger proteins expressed in the human monoblast cell line U-937. DNA Cell Biol. 14: 125-136.
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#### CHROMOSOMAL LOCATION

Genetic locus: ZNF440 (human) mapping to 19p13.2.

## SOURCE

ZNF440 (C-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of ZNF440 of human origin.

#### PRODUCT

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

Blocking peptide available for competition studies, sc-132958 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **APPLICATIONS**

ZNF440 (C-12) is recommended for detection of ZNF440 of 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other ZNF family members.

Suitable for use as control antibody for ZNF440 siRNA (h): sc-97725, ZNF440 shRNA Plasmid (h): sc-97725-SH and ZNF440 shRNA (h) Lentiviral Particles: sc-97725-V.

Molecular Weight of ZNF440: 69 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

### **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) Immunofluo-rescence: 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.

#### **STORAGE**

Store at 4° C, \*\*D0 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.