

ZNF140 (D-20): sc-249460

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. ZNF140 (zinc finger protein 140), also known as pHZ-39, is a 457 amino acid nuclear protein that is thought to act as a repressor of transcriptional regulation. ZNF140 is ubiquitously expressed and belongs to the Krüppel C₂H₂-type zinc-finger protein family. Containing one KRAB domain and ten C₂H₂-type zinc fingers, ZNF140 is encoded by a gene that maps to human chromosome 12q24.33.

REFERENCES

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2. Lichter, P., et al. 1992. Clustering of C₂H₂ zinc finger motif sequences within telomeric and fragile site regions of human chromosomes. *Genomics* 13: 999-1007.
3. Margolin, J.F., et al. 1994. Krüppel-associated boxes are potent transcriptional repression domains. *Proc. Natl. Acad. Sci. USA* 91: 4509-4513.
4. Vissing, H., et al. 1995. Repression of transcriptional activity by heterologous KRAB domains present in zinc finger proteins. *FEBS Lett.* 369: 153-157.
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7. Filion, G.J., et al. 2006. A family of human zinc finger proteins that bind methylated DNA and repress transcription. *Mol. Cell. Biol.* 26: 169-181.
8. Tian, C.Y., et al. 2006. Progress in the study of KRAB zinc finger protein. *Yi Chuan* 28: 1451-1456.

CHROMOSOMAL LOCATION

Genetic locus: ZNF140 (human) mapping to 12q24.33.

SOURCE

ZNF140 (D-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ZNF140 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-249460 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ZNF140 (D-20) is recommended for detection of ZNF140 of 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).

ZNF140 (D-20) is also recommended for detection of ZNF140 in additional species, including bovine.

Suitable for use as control antibody for ZNF140 siRNA (h): sc-95674, ZNF140 shRNA Plasmid (h): sc-95674-SH and ZNF140 shRNA (h) Lentiviral Particles: sc-95674-V.

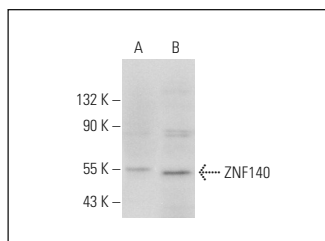
Molecular Weight of ZNF140: 53 kDa.

Positive Controls: human testis extract: sc-363781 or SK-OV-3 whole cell lysate: sc-364229.

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



ZNF140 (D-20): sc-249460. Western blot analysis of ZNF140 expression in human testis tissue extract (A) and SK-OV-3 whole cell lysate (B).

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.