

ZNF185 (V-13): sc-241157

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. ZNF185 (zinc finger protein 185) is a 689 amino acid protein that contains one LIM zinc-binding domain, that binds 2 zinc ions and is found in proteins with a variety of different functions such as cytoskeleton organization, development and gene expression. ZNF185 is expressed in kidney, prostate, ovary, pancreas, blood, placenta and ovary. It is thought that ZNF185 may be involved in the regulation of cellular differentiation and/or proliferation. There are three different isoforms of ZNF185 that are produced as a result of alternative splicing events.

REFERENCES

1. Heiss, N.S., et al. 1997. Genomic structure of a novel LIM domain gene (ZNF185) in Xq28 and comparisons with the orthologous murine transcript. *Genomics* 43: 329-338.
2. Mallon, A.M., et al. 2000. Comparative genome sequence analysis of the Bpa/Str region in mouse and man. *Genome Res.* 10: 758-775.
3. Wu, X., et al. 2002. Identification of genes with higher expression in human uterine leiomyomas than in the corresponding myometrium. *Mol. Hum. Reprod.* 8: 246-254.
4. Vanaja, D.K., et al. 2003. Transcriptional silencing of zinc finger protein 185 identified by expression profiling is associated with prostate cancer progression. *Cancer Res.* 63: 3877-3882.
5. Wong, N., et al. 2005. Transcriptional profiling identifies gene expression changes associated with IFN- α tolerance in hepatitis C-related hepatocellular carcinoma cells. *Clin. Cancer Res.* 11: 1319-1326.
6. Medina, P.P., et al. 2005. Transcriptional targets of the chromatin-remodeling factor SMARCA4/BRG1 in lung cancer cells. *Hum. Mol. Genet.* 14: 973-982.
7. Zhang, J.S., et al. 2007. ZNF185, an actin-cytoskeleton-associated growth inhibitory LIM protein in prostate cancer. *Oncogene* 26: 111-122.
8. Ma, Y., et al. 2009. Identification of candidate genes for human pituitary development by EST analysis. *BMC Genomics* 10: 109.
9. Pan, Z.F., et al. 2010. ZNF185 gene cloning and the localization in mouse testis. *Xi Bao Yu Fen Zi Mian Yi Xue Za Zhi* 26: 973-975.

CHROMOSOMAL LOCATION

Genetic locus: Zfp185 (mouse) mapping to X A7.3.

SOURCE

ZNF185 (V-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ZNF185 of mouse origin.

RESEARCH USE

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

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-241157 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ZNF185 (V-13) is recommended for detection of ZNF185 of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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); non cross-reactive with other ZNF family members.

Suitable for use as control antibody for ZNF185 siRNA (m): sc-155648, ZNF185 shRNA Plasmid (m): sc-155648-SH and ZNF185 shRNA (m) Lentiviral Particles: sc-155648-V.

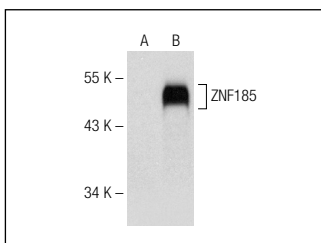
Molecular Weight of ZNF185 isoforms: 74/49 kDa.

Positive Controls: ZNF185 (m): 293T Lysate: sc-124771 or mouse placenta tissue extract.

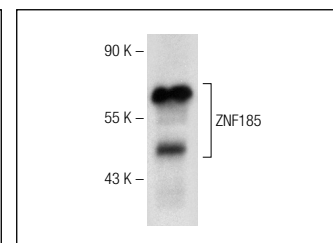
RECOMMENDED SECONDARY REAGENTS

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



ZNF185 (V-13): sc-241157. Western blot analysis of ZNF185 expression in non-transfected: sc-117752 (A) and mouse ZNF185 transfected: sc-124771 (B) 293T whole cell lysates.



ZNF185 (V-13): sc-241157. Western blot analysis of ZNF185 expression in mouse placenta tissue extract.

STORAGE

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