

ZNF136 (ZNF1H5D11): sc-81133

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. ZNF136 is a transcriptional regulator belonging to the Krüppel C₂H₂-type zinc-finger protein family. It is a ubiquitously expressed protein, localizes to the nucleus and contains 14 C₂H₂-type zinc fingers and one KRAB A-domain. Alone, ZNF136 functions as a weak repressor; however, when fused with a heterologous KRAB B-domain containing protein, such as ZNF10, ZNF136 functions as a potent repressor.

REFERENCES

- Margolin, J.F., Friedman, J.R., Meyer, W.K., Vissing, H. and Thiesen, H.J. 1994. Krüppel-associated boxes are potent transcriptional repression domains. *Proc. Natl. Acad. Sci. USA* 91: 4509-4513.
- Witzgall, R., O'Leary, E., Leaf, A., Onaldi, D. and Bonventre, J.V. 1994. The Krüppel-associated box-A (KRAB-A) domain of zinc finger proteins mediates transcriptional repression. *Proc. Natl. Acad. Sci. USA* 91: 4514-4518.
- Pengue, G., Calabrò, V., Bartoli, P.C., Pagliuca, A. and Lania, L. 1994. Repression of transcriptional activity at a distance by the evolutionarily conserved KRAB domain present in a subfamily of zinc finger proteins. *Nucleic Acids Res.* 22: 2908-2914.
- Tommerup, N. and Vissing, H. 1995. Isolation and fine mapping of 16 novel human zinc finger-encoding cDNAs identify putative candidate genes for developmental and malignant disorders. *Genomics* 27: 259-264.
- Vissing, H., Meyer, W.K., Aagaard, L., Tommerup, N. and Thiesen, H.J. 1995. Repression of transcriptional activity by heterologous KRAB domains present in zinc finger proteins. *FEBS Lett.* 369: 153-157.
- Urrutia, R. 2003. KRAB-containing zinc-finger repressor proteins. *Genome Biol.* 4: 231-231.
- Nikulina, K., Bodeker, M., Warren, J., Matthews, P. and Margolis, T.P. 2006. A novel Krüppel related factor consisting of only a KRAB domain is expressed in the murine trigeminal ganglion. *Biochem. Biophys. Res. Commun.* 348: 839-849.

CHROMOSOMAL LOCATION

Genetic locus: ZNF136 (human) mapping to 19p13.2.

SOURCE

ZNF136 (ZNF1H5D11) is a mouse monoclonal antibody raised against a recombinant protein corresponding to an internal region of ZNF136 of human origin.

PRODUCT

Each vial contains 100 µg IgG_{2b} in 1.0 ml of PBS with < 0.1% sodium azide and 1.0% stabilizer protein.

RESEARCH USE

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

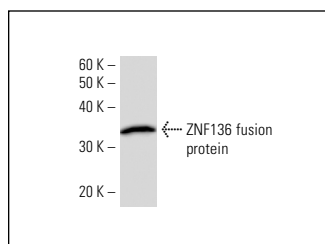
APPLICATIONS

ZNF136 (ZNF1H5D11) is recommended for detection of ZNF136 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)].

Suitable for use as control antibody for ZNF136 siRNA (h): sc-97668, ZNF136 shRNA Plasmid (h): sc-97668-SH and ZNF136 shRNA (h) Lentiviral Particles: sc-97668-V.

Molecular Weight of ZNF136: 63 kDa.

DATA



ZNF136 (ZNF1H5D11): sc-81133 Western Blot analysis of human recombinant ZNF136 fusion protein.

STORAGE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.