SANTA CRUZ BIOTECHNOLOGY, INC.

SUHW1 (P-24): sc-134044

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 krueppel-type DNA binding domain and a KRAB domain, which is thought to interact with KAP1, thereby recruiting histone modifying proteins. SUHW1 (suppressor of hairy wing homolog 1), also known as ZNF280A (Zinc-finger protein 280A), 3'OY11.1, ZNF636 or ZNF280, is a 542 amino acid protein that contains four C_2H_2-type zinc fingers. Localized to the nucleus, SUHW1 is thought to function as a transcription factor that may mediate transcriptional regulation events.

REFERENCES

1. Kawasaki, K., et al. 1997. One-megabase sequence analysis of the human immunoglobulin λ gene locus. Genome Res. 7: 250-261.
2. Dunham, I., et al. 1999. The DNA sequence of human chromosome 22. Nature 402: 489-495.
3. Sun, Y., et al. 2003. The KRAB domain of zinc finger gene ZNF268: a potential transcriptional repressor. IUBMB Life 55: 127-131.
4. Nakamura, M., et al. 2004. A novel subfamily of zinc finger genes involved in embryonic development. J. Cell. Biochem. 93: 887-895.
5. Englbrecht, C.C., et al. 2004. Conservation, diversification and expansion of C_2H_2 zinc finger proteins in the *Arabidopsis thaliana* genome. BMC Genomics 5: 39-39.
6. O'Geen, H., et al. 2007. Genome-wide analysis of KAP1 binding suggests autoregulation of KRAB-ZNFs. PLoS Genet. 3: e89.

CHROMOSOMAL LOCATION

Genetic locus: ZNF280A (human) mapping to 22q11.22.

SOURCE

SUHW1 (P-24) is an affinity purified rabbit polyclonal antibody raised against synthetic SUHW1 peptide of human origin.

PRODUCT

Each vial contains 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

SUHW1 (P-24) is recommended for detection of SUHW1 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for SUHW1 siRNA (h): sc-76606, SUHW1 shRNA Plasmid (h): sc-76606-SH and SUHW1 shRNA (h) Lentiviral Particles: sc-76606-V.

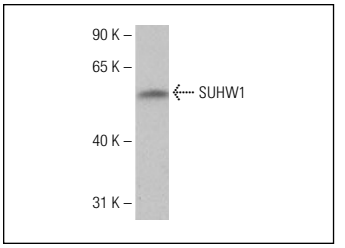
Molecular Weight of SUHW1: 61 kDa.

Positive Controls: human fetal brain tissue extract.

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).

DATA



SUHW1 (P-24): sc-134044. Western blot analysis of SUHW1 expression in human fetal brain tissue extract.

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.