

SUHW1 (H-3): sc-515056

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. 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 4 C₂H₂-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 lambda 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 C₂H₂ zinc finger proteins in the *Arabidopsis thaliana* genome. *BMC Genomics* 5: 39.

CHROMOSOMAL LOCATION

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

SOURCE

SUHW1 (H-3) is a mouse monoclonal antibody raised against amino acids 134-181 mapping within an internal region of SUHW1 of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

SUHW1 (H-3) is available conjugated to agarose (sc-515056 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-515056 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-515056 PE), fluorescein (sc-515056 FITC), Alexa Fluor[®] 488 (sc-515056 AF488), Alexa Fluor[®] 546 (sc-515056 AF546), Alexa Fluor[®] 594 (sc-515056 AF594) or Alexa Fluor[®] 647 (sc-515056 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-515056 AF680) or Alexa Fluor[®] 790 (sc-515056 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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STORAGE

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

APPLICATIONS

SUHW1 (H-3) is recommended for detection of SUHW1 of human origin by Western Blotting (starting dilution 1:100, 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).

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.

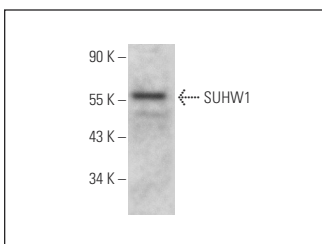
Molecular Weight of SUHW1: 61 kDa.

Positive Controls: K-562 nuclear extract: sc-2130.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker[™] Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz[®] Mounting Medium: sc-24941 or UltraCruz[®] Hard-set Mounting Medium: sc-359850.

DATA



SUHW1 (H-3): sc-515056. Western blot analysis of SUHW1 expression in K-562 nuclear extract.

RESEARCH USE

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

PROTOCOLS

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