

SUHW3 (S-20): sc-248727

BACKGROUND

SUHW3 (suppressor of hairy wing homolog 3), also known as ZNF280C (zinc finger protein 280C) or ZNF633 (zinc finger protein 633), is a 737 amino acid nuclear protein that contains 5 C₂H₂-type zinc fingers and may function as a transcription factor. Upon DNA damage, SUHW3 becomes phosphorylated, most likely by Atm or ATR. The SUHW3 gene contains 66,250 bases, encodes three transcripts and maps to human chromosome Xq26.1. The X chromosome is one of the human sex chromosomes, which consists of about 153 million base pairs and nearly 1,000 genes. Color blindness, hemophilia and Duchenne muscular dystrophy are well known X chromosome-linked conditions which affect males most frequently, as males carry a single X chromosome. Turner's syndrome and Triple X syndrome are two heritable conditions that can occur as a result of an unusual number of X chromosomes.

REFERENCES

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3. Deeb, S.S. 2005. The molecular basis of variation in human color vision. *Clin. Genet.* 67: 369-377.
4. Bojesen, A., et al. 2006. The metabolic syndrome is frequent in Klinefelter's syndrome and is associated with abdominal obesity and hypogonadism. *Diabetes Care* 29: 1591-1598.
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CHROMOSOMAL LOCATION

Genetic locus: ZNF280C (human) mapping to Xq26.1.

SOURCE

SUHW3 (S-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SUHW3 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-248727 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SUHW3 (S-20) is recommended for detection of SUHW3 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); non cross-reactive with SUHW1 or SUHW4.

Suitable for use as control antibody for SUHW3 siRNA (h): sc-90954, SUHW3 shRNA Plasmid (h): sc-90954-SH and SUHW3 shRNA (h) Lentiviral Particles: sc-90954-V.

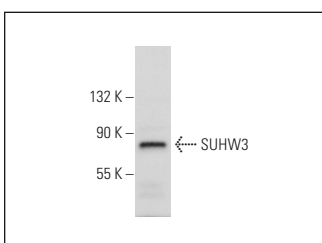
Molecular Weight of SUHW3: 83 kDa.

Positive Controls: human colon extract: sc-363757.

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



SUHW3 (S-20): sc-248727. Western blot analysis of SUHW3 expression in human colon 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.