

SUHW4 (Y-12): sc-137806

BACKGROUND

SUHW4 (suppressor of hairy wing homolog 4), also known as ZNF280D (zinc finger protein 280D) or ZNF634 (zinc finger protein 634), is a 979 amino acid nuclear protein that may function as a transcription factor. SUHW4 contains five C₂H₂-type zinc fingers and exists as five alternatively spliced isoforms. The gene that encodes SUHW4 contains 103,911 bases and maps to human chromosome 15q21.3. Encoding more than 700 genes, chromosome 15 is made up of approximately 106 million base pairs and is about 3% of the human genome. Angelman and Prader-Willi syndromes are associated with loss of function or deletion of genes in the 15q11-q13 region. In the case of Angelman syndrome, this loss is due to inactivity of the maternal 15q11-q13 encoded UBE3A gene in the brain by either chromosomal deletion or mutation. In cases of Prader-Willi syndrome, there is a partial or complete deletion of this region from the paternal copy of chromosome 15. Tay-Sachs disease and Marfan syndrome are also associated with chromosome 15 through the HEXA gene and the FBN1 gene, respectively.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ZNF280D (human) mapping to 15q21.3; Zfp280d (mouse) mapping to 9 D.

SOURCE

SUHW4 (Y-12) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of SUHW4 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-137806 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SUHW4 (Y-12) is recommended for detection of SUHW4 of mouse and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with SUHW1 or SUHW3.

SUHW4 (Y-12) is also recommended for detection of SUHW4 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for SUHW4 siRNA (h): sc-90090, SUHW4 siRNA (m): sc-153918, SUHW4 shRNA Plasmid (h): sc-90090-SH, SUHW4 shRNA Plasmid (m): sc-153918-SH, SUHW4 shRNA (h) Lentiviral Particles: sc-90090-V and SUHW4 shRNA (m) Lentiviral Particles: sc-153918-V.

Molecular Weight of SUHW4 isoforms: 109/108/66/49/24 kDa.

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) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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.