

SPT7L (K-14): sc-162271

BACKGROUND

SPT7L (suppressor of Ty 7-like), also known as STAGA complex 65 subunit γ (STAF65G), STAF65 or SUPT7H, is a 414 amino acid sumoylated nuclear protein. SPT7L is a component of the STAGA transcription coactivator-HAT complex, which includes the proteins SPT3, GCN5, TAF6L, TAF5L, TAF II p32, TAF II p20, TAF II p30 and ADA3. SPT7L is highly expressed in thymus, adenocarcinomas and gliomas, with lower levels found in small intestine, skeletal muscle, stomach and esophageal cancers. The gene that encodes SPT7L maps to human chromosome 2, which is the second largest human chromosome, consisting of 237 million bases and encoding over 1,400 genes. A number of genetic diseases are linked to genes on chromosome 2. Harlequin ichthyosis, a rare and morbid skin deformity, is associated with mutations in the ABCA12 gene. The lipid metabolic disorder sitosterolemia is associated with ABCG5 and ABCG8. An extremely rare recessive genetic disorder, Alström syndrome is due to mutations in the ALMS1 gene. Interestingly, chromosome 2 contains what appears to be a vestigial second centromere and vestigial telomeres which gives credence to the hypothesis that human chromosome 2 is the result of an ancient fusion of two ancestral chromosomes seen in modern form today in apes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SUPT7L (human) mapping to 2p23.3; Supt7l (mouse) mapping to 5 B1.

SOURCE

SPT7L (K-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SPT7L of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-162271 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SPT7L (K-14) is recommended for detection of SPT7L of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 SPT7.

SPT7L (K-14) is also recommended for detection of SPT7L in additional species, including equine, canine and porcine.

Suitable for use as control antibody for SPT7L siRNA (h): sc-94413, SPT7L siRNA (m): sc-153803, SPT7L shRNA Plasmid (h): sc-94413-SH, SPT7L shRNA Plasmid (m): sc-153803-SH, SPT7L shRNA (h) Lentiviral Particles: sc-94413-V and SPT7L shRNA (m) Lentiviral Particles: sc-153803-V.

Molecular Weight of SPT7L: 60 kDa.

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) 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.

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.



Try **SPT7L (F-5): sc-514548**, our highly recommended monoclonal alternative to SPT7L (K-14).