SKT (V-13): sc-165493



The Power to Question

BACKGROUND

SKT (sickle tail protein homolog) is a 1,943 amino acid protein that localizes to cytoplasm. The SKT protein is required for normal development of intervertebral disks. Existing as seven alternatively spliced isoforms, the SKT gene is conserved in chimpanzee, canine, bovine, mouse, rat, chicken and zebrafish, and maps to human chromosome 10p12.2. Spanning nearly 135 million base pairs, chromosome 10 makes up approximately 4.5% of total DNA in cells and encodes nearly 1,200 genes. Several protein-coding genes, including those that encode for chemokines, cadherins, excision repair proteins, early growth response factors (Egrs) and fibroblast growth receptors (FGFRs), are located on chromosome 10. Defects in some of the genes that map to chromosome 10 are associated with Charcot-Marie Tooth disease, Jackson-Weiss syndrome, Usher syndrome, nonsyndromatic deafness, Wolman's syndrome, Cowden syndrome, multiple endocrine neoplasia type 2 and porphyria.

REFERENCES

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- Teresi, R.E., et al. 2007. Cowden syndrome-affected patients with PTEN promoter mutations demonstrate abnormal protein translation. Am. J. Hum. Genet. 81: 756-767.
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CHROMOSOMAL LOCATION

Genetic locus: KIAA1217 (human) mapping to 10p12.2; Etl4 (mouse) mapping to 2 A3.

SOURCE

SKT (V-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SKT of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-165493 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SKT (V-13) is recommended for detection of SKT of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

SKT (V-13) is also recommended for detection of SKT in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for SKT siRNA (h): sc-90643, SKT siRNA (m): sc-153478, SKT shRNA Plasmid (h): sc-90643-SH, SKT shRNA Plasmid (m): sc-153478-SH, SKT shRNA (h) Lentiviral Particles: sc-90643-V and SKT shRNA (m) Lentiviral Particles: sc-153478-V.

Molecular Weight of SKT isoforms 1/2/3/4: 214/147/162/95 kDa.

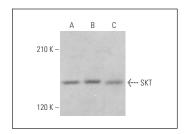
Molecular Weight of SKT isoforms 5/6/7: 147/103/99 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, K-562 whole cell lysate: sc-2203 or NIH/3T3 whole cell lysate: sc-2210.

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



SKT (V-13): sc-165493. Western blot analysis of SKT expression in Jurkat ($\bf A$), K-562 ($\bf B$) and NIH/3T3 ($\bf C$) whole cell lysates.

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.