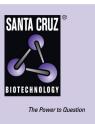
SANTA CRUZ BIOTECHNOLOGY, INC.

Ski (6D763): sc-73034



BACKGROUND

The Ski family of oncogenes includes Ski and Sno (Ski-related novel gene, or Ski-like). Three isoforms of human Sno (SnoN, SnoA and SnoI) and two isoforms in mouse (SnoN and SnoN2, also designated sno-dE3) are produced by alternative splicing of the SKIL gene. Ski family members are nuclear proteins that form homodimers and heterodimers, bind to DNA and function as transcriptional activators and repressors. These proteins consist of five tandem repeats in the C-terminal domain and two leucine zipper motifs that are responsible for efficient DNA binding, trimerization and cellular transformation. The Ski proteins regulate TGFB induced gene-specific transcriptional activation by effectively repressing Smad activity and, thereby, inhibit TGFB induced cell growth and extracellular matrix production. The amino-terminus of Ski and SnoN preferentially associates with the MH2 domain of Smad2 and Smad4 of the Smad family of transcription factors, where they then recruit the transcriptional corepressor protein N-CoR to the complex to inhibit transcription. Alternatively, Ski proteins are negatively regulated by various Smad proteins, as TGFB induces Smad3 accumulation in the nucleus, where it is then responsible for inducing the rapid degradation of SnoN and faciliating TGFB signaling pathways and Smad-activated gene transcription.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SKI (human) mapping to 1p36.33; Ski (mouse) mapping to 4 E2.

SOURCE

Ski (6D763) is a mouse monoclonal antibody raised against recombinant v-Ski.

PRODUCT

Each vial contains 200 $\mu g\, lgG_1$ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Ski (6D763) is recommended for detection of Ski of mouse, rat and 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)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for Ski siRNA (h): sc-38366, Ski siRNA (m): sc-38367, Ski shRNA Plasmid (h): sc-38366-SH, Ski shRNA Plasmid (m): sc-38367-SH, Ski shRNA (h) Lentiviral Particles: sc-38366-V and Ski shRNA (m) Lentiviral Particles: sc-38367-V.

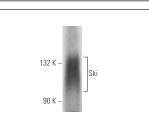
Molecular Weight of Ski: 95-115 kDa.

Positive Controls: Sol8 cell lysate: sc-2249.

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, 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 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



Ski (6D763): sc-73034. Western blot analysis of Ski expression in Sol8 whole cell lysate.

STORAGE

Store at 4° C, **D0 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 for detailed protocols and support products.