SANTA CRUZ BIOTECHNOLOGY, INC.

Ski (G8): sc-33693

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 TGF-β signaling pathways and Smad-activated gene transcription. Alternatively, Ski proteins are negatively regulated by various Smad proteins, as TGF-β induces Smad3 accumulation in the nucleus, where it is then responsible for inducing the rapid degradation of SnoN and facilitating TGF-β signaling pathways and Smad-activated gene transcription.

REFERENCES


CHROMOSOMAL LOCATION

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

SOURCE

Ski (G8) is a mouse monoclonal antibody raised against recombinant v-Ski.

PRODUCT

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-33693 X, 200 µg/0.1 ml.

Ski (G8) is available conjugated to agarose (sc-33693 AC), 500 µg/0.25 ml agarose in 1 ml for IP; to HRP (sc-33693 HRP), 200 µg/ml for WB, IHC(PE) and ELISA; to either phycoerythrin (sc-33693 PE), fluorescein (sc-33693 FITC), Alexa Fluor® 488 (sc-33693 AF488), Alexa Fluor® 546 (sc-33693 AF546), Alexa Fluor® 594 (sc-33693 AF594) or Alexa Fluor® 647 (sc-33693 AF647), 200 µg/ml, for WB (RGB), IF, IHC(PE) and FCM; and to either Alexa Fluor® 680 (sc-33693 AF680) or Alexa Fluor® 790 (sc-33693 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

STORAGE

Store at 4°C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

Ski (G8) 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).


Ski (G8) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of Ski: 95-115 kDa.

DATA

Ski (G8): sc-33693. Western blot analysis of Ski expression in Sol8 whole cell lysates, A549 (A) and THP-1 (B) whole cell lysates.

SELECT PRODUCT CITATIONS


RESEARCH USE

For research use only, not for use in diagnostic procedures.

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SANTA CRUZ BIOTECHNOLOGY, INC. (Europe) Europe +49 6221 4503 0 www.scbt.com