SANTA CRUZ BIOTECHNOLOGY, INC.

Skip (F-10): sc-393535

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Ski is a unique oncoprotein that is involved in inducing both transformation and differentiation. Skip (Ski-interacting protein) is a nuclear hormone receptor that binds the highly-conserved region of Ski, which is required for its transforming activity. Skip is involved in Vitamin D-mediated transcription. Specifically, Skip interacts with E7, the major transforming protein of human papillomavirus, which is implicated in the development of cervical cancer. Skip has specific inhibitory effects on BMP-2-induced differentiation and is implicated to be a novel regulator of the differentiation programming induced by TGF-β signals. Skip also functions as a repressor in Notch signalling in association with the corepressor SMRT.

REFERENCES

1. Baudino, T.A., et al. 1998. Isolation and characterization of a novel co-activator protein, NCoA-62, involved in Vitamin D-mediated transcription. J. Biol. Chem. 273: 16434-16441.
2. Dahl, R., et al. 1998. The Ski oncoprotein interacts with Skip, the human homolog of *Drosophila* Bx42. Oncogene 16: 1579-1586.
3. Leong, G.M., et al. 2001. Ski-interacting protein interacts with Smad proteins to augment transforming growth factor β-dependent transcription. J. Biol. Chem. 276: 18243-18248.
4. Prathapam, T., et al. 2001. The HPV16 E7 oncoprotein binds Skip and suppresses its transcriptional activity. Oncogene 20: 677-685.
5. Figueroa, J.D., et al. 2004. Differential effects of the Ski-interacting protein (Skip) on differentiation induced by transforming growth factor β1 and bone morphogenetic protein-2 in C2C12 cells. Exp. Cell Res. 296: 163-172.
6. Leong, G.M., et al. 2004. Ski-interacting protein, a bifunctional nuclear receptor coregulator that interacts with NCoR/SMRT and p300. Biochem. Biophys. Res. Commun. 315: 1070-1076.
7. SWISS-PROT/TrEMBL (Q13573). World Wide Web URL: http://www.expasy.ch/sprot/sprot-top.html

CHROMOSOMAL LOCATION

Genetic locus: SNW1 (human) mapping to 14q24.3; Snw1 (mouse) mapping to 12 D2.

SOURCE

Skip (F-10) is a mouse monoclonal antibody raised against amino acids 237-536 mapping at the C-terminus of Skip of human origin.

PRODUCT

Each vial contains 200 µg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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

APPLICATIONS

Skip (F-10) is recommended for detection of Skip 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)], 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).

Skip (F-10) is also recommended for detection of Skip in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Skip siRNA (h): sc-37164, Skip siRNA (m): sc-37165, Skip shRNA Plasmid (h): sc-37164-SH, Skip shRNA Plasmid (m): sc-37165-SH, Skip shRNA (h) Lentiviral Particles: sc-37164-V and Skip shRNA (m) Lentiviral Particles: sc-37165-V.

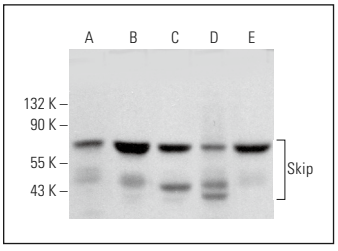
Molecular Weight of Skip: 62 kDa.

Positive Controls: HeLa nuclear extract: sc-2120, HeLa whole cell lysate: sc-2200 or A-375 cell lysate: sc-3811.

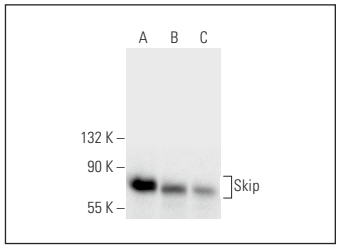
RECOMMENDED SUPPORT REAGENTS

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, UltraCruz® Blocking Reagent: sc-516214 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



Skip (F-10): sc-393535. Western blot analysis of Skip expression in HeLa (**A**), MDA-MB-231 (**B**) and NIH/3T3 (**C**) whole cell lysates, A-673 nuclear extract (**D**) and rat testis tissue extract (**E**).



Skip (F-10): sc-393535. Western blot analysis of Skip expression in HeLa nuclear extract (**A**) and HeLa (**B**) and A-375 (**C**) whole cell lysates.

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.