

Skip (C-15): sc-21812

BACKGROUND

Skip 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 signaling 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 β 1 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: SKIIP (human) mapping to 14q24.3.

SOURCE

Skip (C-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Skip 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-21812 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

Skip (C-15) is recommended for detection of Skip of 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).

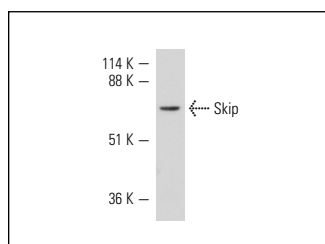
Skip (C-15) is also recommended for detection of Skip in additional species, including equine, canine, bovine, porcine and avian.

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

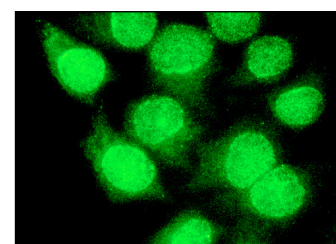
Molecular Weight of Skip: 62 kDa.

Positive Controls: A-673 nuclear extract: sc-2128, HeLa nuclear extract: sc-2120 or DU 145 nuclear extract: sc-24960.

DATA



Skip (C-15): sc-21812. Western blot analysis of Skip expression in A-673 nuclear extract.



Skip (C-15): sc-21812. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear localization.

SELECT PRODUCT CITATIONS

1. Villar, V., et al. 2010. SKIP is required for TGF- β 1-induced epithelial mesenchymal transition and migration in transformed keratinocytes. *FEBS Lett.* 584: 4586-4592.
2. Villar, V., et al. 2013. Skip regulates TGF- β 1-induced extracellular matrix degrading proteases expression in human PC-3 prostate cancer cells. *Prostate Cancer* 2013: 398253.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.


 MONOS
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Try **Skip (D-5): sc-393856** or **Skip (F-10): sc-393535**, our highly recommended monoclonal alternatives to Skip (C-15).