

SKIV2L2 (H-9): sc-515828

BACKGROUND

SKIV2L2 (superkiller viralicidic activity 2-like 2) is a 1,042 amino acid protein that belongs to the helicase family and the SKI2 subfamily. The SKIV2L2 protein localizes to nucleus, contains one helicase ATP-binding domain and one helicase C-terminal domain. SKIV2L2 is identified in the spliceosome C complex and may be involved in pre-mRNA splicing. SKIV2L2 is associated with the RNA exosome complex and involved in the 3' processing of the 7S pre-rRNA to the mature 5.8S rRNA. The SKIV2L2 gene is conserved in chimpanzee, canine, mouse, rat, chicken, zebrafish, fruit fly, mosquito, *C. elegans*, *S. pombe*, *S. cerevisiae*, *K. lactis*, *E. gossypii*, *M. grisea*, *N. crassa*, *A. thaliana* and rice, and maps to human chromosome 5q11.2. A mutation in *skiv2l2* in zebrafish causes defects in cell proliferation, suggesting that *skiv2l2* plays a role in regulating melanoblast proliferation during early stages of melanocyte regeneration.

REFERENCES

- Andersen, J.S., et al. 2002. Directed proteomic analysis of the human nucleolus. *Curr. Biol.* 12: 1-11.
- Scherl, A., et al. 2002. Functional proteomic analysis of human nucleolus. *Mol. Biol. Cell* 13: 4100-4109.
- Gustafson, M.P., et al. 2005. Zcchc8 is a glycogen synthase kinase-3 substrate that interacts with RNA-binding proteins. *Biochem. Biophys. Res. Commun.* 338: 1359-1367.
- Yang, C.T., et al. 2007. Mutations in *gfpt1* and SKIV2L2 cause distinct stage-specific defects in larval melanocyte regeneration in zebrafish. *PLoS Genet.* 3: e88.
- Iwanami, N., et al. 2009. Ethylnitrosourea-induced thymus-defective mutants identify roles of KIAA1440, TRRAP, and SKIV2L2 in teleost organ development. *Eur. J. Immunol.* 39: 2606-2616.

CHROMOSOMAL LOCATION

Genetic locus: SKIV2L2 (human) mapping to 5q11.2; *Skiv2l2* (mouse) mapping to 13 D2.2.

SOURCE

SKIV2L2 (H-9) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 304-331 within an internal region of SKIV2L2 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.

SKIV2L2 (H-9) is available conjugated to agarose (sc-515828 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-515828 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-515828 PE), fluorescein (sc-515828 FITC), Alexa Fluor[®] 488 (sc-515828 AF488), Alexa Fluor[®] 546 (sc-515828 AF546), Alexa Fluor[®] 594 (sc-515828 AF594) or Alexa Fluor[®] 647 (sc-515828 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-515828 AF680) or Alexa Fluor[®] 790 (sc-515828 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

SKIV2L2 (H-9) is recommended for detection of SKIV2L2 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).

Suitable for use as control antibody for SKIV2L2 siRNA (h): sc-91681, SKIV2L2 siRNA (m): sc-153477, SKIV2L2 shRNA Plasmid (h): sc-91681-SH, SKIV2L2 shRNA Plasmid (m): sc-153477-SH, SKIV2L2 shRNA (h) Lentiviral Particles: sc-91681-V and SKIV2L2 shRNA (m) Lentiviral Particles: sc-153477-V.

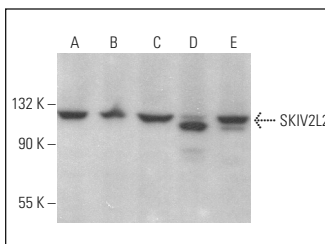
Molecular Weight of SKIV2L2: 118 kDa.

Positive Controls: IMR-32 cell lysate: sc-2409, Jurkat nuclear extract: sc-2132 or HeLa nuclear extract: sc-2120.

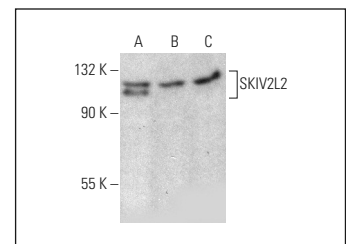
RECOMMENDED SUPPORT REAGENTS

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



SKIV2L2 (H-9): sc-515828. Western blot analysis of SKIV2L2 expression in IMR-32 (A), HEK293 (B), Daudi (C), NIH/3T3 (D) and Neuro-2A (E) whole cell lysates.



SKIV2L2 (H-9): sc-515828. Western blot analysis of SKIV2L2 expression in IMR-32 whole cell lysate (A) and Jurkat (B) and HeLa (C) nuclear extracts.

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.

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