

# HNRPLL (P-23): sc-101975

## BACKGROUND

Heterogeneous nuclear ribonucleoprotein L-like (HNRPLL), also known as stromal RNA-regulating factor (SRRF), is a 542 amino acid nuclear protein. HNRPLL shares 69% amino acid homology with hnRNP L, a protein that binds to the 3' end of introns to modulate alternative splicing mechanisms of pre-mRNAs in normal cells. Due to this homology, HNRPLL is thought to bind RNA and participate in mRNA processing. HNRPLL contains three RNA-regulating motif (RRF) domains, which have RNA-binding regions. HNRPLL interacts with BAT1, an RNA-dependent ATPase that controls ATP hydrolysis during pre-mRNA splicing. HNRPLL is widely expressed in human tissues, including pancreas, lung, kidney, placenta, heart, skeletal muscle and bone marrow stromal cells. HNRPLL is expressed as four isoforms produced by alternative splicing.

## REFERENCES

1. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 603083. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
3. Hui, J., et al. 2003. Novel functional role of CA repeats and hnRNP L in RNA stability. *RNA* 9: 931-936.
4. Shur, I., et al. 2004. Alternatively spliced isoforms of a novel stromal RNA regulating factor. *Gene* 334: 113-121.
5. Hui, J., et al. 2005. Intronic CA-repeat and CA-rich elements: a new class of regulators of mammalian alternative splicing. *EMBO J.* 24: 1988-1998.
6. Lim, J., et al. 2006. A protein-protein interaction network for human inherited ataxias and disorders of Purkinje cell degeneration. *Cell* 125: 801-814.
7. Park, H.G., et al. 2007. Heterogeneous nuclear ribonucleoprotein D/AUF1 interacts with heterogeneous nuclear ribonucleoprotein L. *J. Biosci.* 32: 1263-1272.
8. Hung, L.H., et al. 2008. Diverse roles of hnRNP L in mammalian mRNA processing: a combined microarray and RNAi analysis. *RNA* 14: 284-296.

## CHROMOSOMAL LOCATION

Genetic locus: HNRPLL (human) mapping to 2p22.1.

## SOURCE

HNRPLL (P-23) is a purified rabbit polyclonal antibody raised against HNRPLL of human origin.

## PRODUCT

Each vial contains 100 µg IgG in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

## STORAGE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

## APPLICATIONS

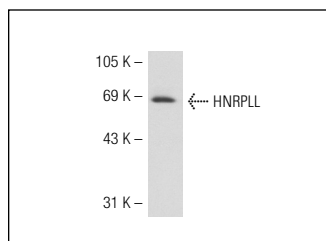
HNRPLL (P-23) is recommended for detection of HNRPLL of human and dog origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (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 HNRPLL siRNA (h): sc-94907, HNRPLL shRNA Plasmid (h): sc-94907-SH and HNRPLL shRNA (h) Lentiviral Particles: sc-94907-V.

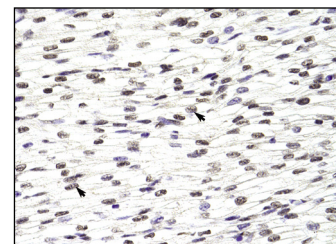
Molecular Weight of HNRPLL: 60 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227 or human lung extract: sc-363767.

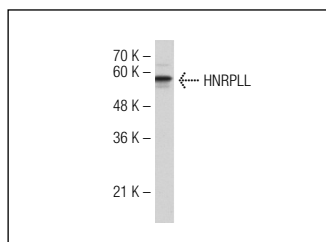
## DATA



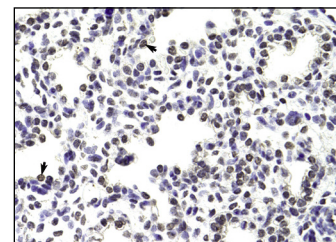
HNRPLL (P-23): sc-101975. Western blot analysis of HNRPLL expression in 293T whole cell lysate.



HNRPLL (P-23): sc-101975. Immunoperoxidase staining of formalin fixed, paraffin-embedded human heart tissue showing nuclear staining.



HNRPLL (P-23): sc-101975. Western blot analysis of HNRPLL expression in Hep G2 whole cell lysate.



HNRPLL (P-23): sc-101975. Immunoperoxidase staining of formalin fixed, paraffin-embedded human lung tissue showing nuclear staining.

## RESEARCH USE

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

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Try **HNRPLL (A-4): sc-390699** or **HNRPLL (E-7): sc-390455**, our highly recommended monoclonal alternatives to HNRPLL (P-23).