hnRNP L (4D11): sc-32317

**BACKGROUND**

Heterogeneous nuclear ribonucleoproteins (hnRNPs) constitute a set of peptides that contribute to mRNA transcription, pre-mRNA processing and mature mRNA transport to the cytoplasm and translation. They also bind heterogeneous nuclear RNA (hnRNA), which are the transcripts produced by RNA polymerase II. There are approximately 20 known hnRNP proteins, and their complexes are the major constituents of the spliceosome. The majority of hnRNP proteins components are localized to the nucleus; however some shuttle between the nucleus and the cytoplasm. hnRNP L, also designated polypyrimidine tract-binding protein (PTB) and its homolog hnRNP L bind to the 3’ end of introns to modulate alternative splicing mechanisms of pre-mRNAs in normal cells and the translation of several viruses, including hepatitis C virus (HCV). The human hnRNP L gene encodes a protein that is localized in the nucleoplasm. hnRNP L, like hnRNP I, is also localized in the nucleolus.

**CHROMOSOMAL LOCATION**


**SOURCE**

hnRNP L (4D11) is a mouse monoclonal antibody raised against hnRNP proteins from HeLa cells purified by affinity chromatography on ssDNA agarose of human origin.

**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.

hnRNP L (4D11) is available conjugated to agarose (sc-32317 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-32317 HRP), 200 µg/ml, for WB, (HCP) and ELISA; to either phycocyanin (sc-32317 PE), fluorescein (sc-32317 FITC), Alexa Fluor® 488 (sc-32317 AF488), Alexa Fluor® 546 (sc-32317 AF546), Alexa Fluor® 594 (sc-32317 AF594) or Alexa Fluor® 647 (sc-32317 AF647), 200 µg/ml for WB (RGB), IF, IHCOP and FCM; and to either Alexa Fluor® 680 (sc-32317 AF680) or Alexa Fluor® 790 (sc-32317 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

hnRNP L (4D11) is recommended for detection of hnRNP L of mouse, rat and human 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) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for hnRNP L siRNA (h): sc-38284, hnRNP L siRNA (m): sc-38285, hnRNP L shRNA Plasmid (h): sc-38284-SH, hnRNP L shRNA Plasmid (m): sc-38285-SH, hnRNP L shRNA (h) Lentiviral Particles: sc-38284-V and hnRNP L shRNA (m) Lentiviral Particles: sc-38285-V.

Molecular Weight of hnRNP L: 68 kDa.

Positive Controls: MEG-01 cell lysate: sc-2283, NIH/3T3 nuclear extract: sc-2138 or HeLa nuclear extract: sc-2120.

**STORAGE**

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

**DATA**

![hnRNP L (4D11): sc-32317. Western blot analysis of hnRNP L expression in MEG-01 (A), RAW 264.7 (B), MCF7 (C) and Hep G2 (D) whole cell lysates and HeLa (E) and NIH/3T3 (F) nuclear extracts.](image1)

![hnRNP L (4D11): sc-32317. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear localization (A), Immunoperoxidase staining of formalin fixed, paraffin-embedded human duodenum tissue showing nuclear staining of glandular cells (B).](image2)

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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

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**SANTA CRUZ BIOTECHNOLOGY, INC.**

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**APPENDIX**

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