hnRNP L (4D11): sc-32317

**BACKGROUND**

Heterogeneous nuclear ribonucleoproteins (hnRNPs) constitute a set of polypeptides 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 hnRNPs, 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 I, 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 nucleoplasm.

**CHROMOSOMAL LOCATION**

Genetic locus: HNRPL (human) mapping to 19q13.2; Hnrpl (mouse) mapping to 7 A3.

**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/ml, for IHC(P) and ELISA; and to either phycoerythrin (sc-32317 PE), fluorescein (sc-32317 FITC), Alexa Fluor® 488 (sc-32317 AF488) or Alexa Fluor® 647 (sc-32317 AF647), 200 µg/ml, for IF, IHC(P) and FCM.

Note: Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA

**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.

**RESEARCH USE**

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

**STOREAGE**

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

**SELECT PRODUCT CITATIONS**


**DATA**

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