

HNRNPA1L2 (X-25): sc-133975

BACKGROUND

Heterogeneous nuclear ribonucleoproteins (hnRNPs) constitute a set of polypeptides that contribute to mRNA transcription and pre-mRNA processing as well as 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. HNRNPA1L2 (Heterogeneous nuclear ribonucleoprotein A1-like 2), also known as hnRNP core protein A1-like 2, is a 320 amino acid protein that contains two RRM (RNA recognition motif) domains, which are implicated in the regulation of alternative splicing and protein components of snRNPs. Like other hnRNPs, it is probable that HNRNPA1L2 is involved in the packaging of pre-mRNA into hnRNP particles and the modulation of splice site selection.

REFERENCES

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- Carmody, S.R. and Wentz, S.R. 2009. mRNA nuclear export at a glance. *J. Cell. Sci.* 122: 1933-1937.
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- Percipalle, P., Raju, C.S. and Fukuda, N. 2009. Actin-associated hnRNP proteins as transacting factors in the control of mRNA transport and localization. *RNA Biol.* 6: 171-174.

CHROMOSOMAL LOCATION

Genetic locus: HNRNPA1L2 (human) mapping to 13q14.3; EG544954 (mouse) mapping to 13 C1.

SOURCE

HNRNPA1L2 (X-25) is an affinity purified rabbit polyclonal antibody raised against synthetic RP11-78J21.1 peptide of human origin.

PRODUCT

Each vial contains 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

RESEARCH USE

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

APPLICATIONS

HNRNPA1L2 (X-25) is recommended for detection of HNRNPA1L2 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), 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 HNRNPA1L2 siRNA (h): sc-106523, EG544954 siRNA (m): sc-143662, HNRNPA1L2 shRNA Plasmid (h): sc-106523-SH, EG544954 shRNA Plasmid (m): sc-143662-SH, HNRNPA1L2 shRNA (h) Lentiviral Particles: sc-106523-V and EG544954 shRNA (m) Lentiviral Particles: sc-143662-V.

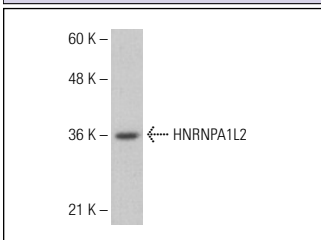
Molecular Weight of HNRNPA1L2: 34 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204

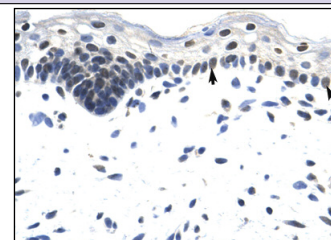
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



HNRNPA1L2 (X-25): sc-133975. Western blot analysis of HNRNPA1L2 expression in Jurkat whole cell lysate.



HNRNPA1L2 (X-25): sc-133975. Immunoperoxidase staining of formalin-fixed, paraffin-embedded Jurkat tissue showing nuclear and cytoplasmic localization.

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 or our catalog for detailed protocols and support products.