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 hnRNPs, and their complexes are the major constituents of the spliceosome. The majority of hnRNPs are localized to the nucleus; however some shuttle between the nucleus and the cytoplasm. The A/B subfamily of hnRNPs include A1, A2/B1, A3 and A0, and in Xenopus, hnRNPA1, A2 and A3 are ubiquitously expressed throughout development as well as in adult tissues. hnRNPA1 and A2/B1 regulate the processing of pre-mRNA by directly antagonizing the association of various splicing factors and by influencing the splice site selection on pre-mRNA. The hnRNPA0 gene is distinct from the other A/B family members, and it encodes a low-abundance protein, which is implicated in mRNA stability.

**CHROMOSOMAL LOCATION**

Genetic locus: HNRNPA2B1 (human) mapping to 7p15.2; Hnrnpa2b1 (mouse) mapping to 6 B3.

**SOURCE**

hnRNPA2/B1 (EF-67) is a mouse monoclonal antibody raised against the C-terminus of hnRNPA2 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

hnRNPA2/B1 (EF-67) is available conjugated to agarose (sc-53531 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-53531 HRP), 200 µg/ml, for WB, H(OC) and ELISA; to either phycoerythrin (sc-53531 PE), fluorescein (sc-53531 FITC), Alexa Fluor® 488 (sc-53531 AF488), Alexa Fluor® 546 (sc-53531 AF546), Alexa Fluor® 594 (sc-53531 AF594) or Alexa Fluor® 647 (sc-53531 AF647), 200 µg/ml, for WB (RGB), IF, IH(OC) and FCM; and to either Alexa Fluor® 680 (sc-53531 AF680) or Alexa Fluor® 790 (sc-53531 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

hnRNPA2/B1 (EF-67) is recommended for detection of hnRNPA2/B1 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); non cross-reactive with hnRNPA1.

Suitable for use as control antibody for hnRNPA2/B1 siRNA (h): sc-43841, hnRNPA2/B1 siRNA (m): sc-43842, hnRNPA2/B1 shRNA Plasmid (h): sc-43841-Sh, hnRNPA2/B1 shRNA Plasmid (m): sc-43842-Sh, hnRNPA2/B1 shRNA (h) Lentiviral Particles: sc-43841-V and hnRNPA2/B1siRNA (m) Lentiviral Particles: sc-43842-V.

Molecular Weight of hnRNPA2/B1: 36/38 kDa.

**STORAGE**

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

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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

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