

KRR1 (H-200): sc-98391

BACKGROUND

The SSU is a large ribonucleoprotein consisting of at least 40 proteins and the U3 small nucleolar RNA. It is involved in pre-rRNA processing and ribosome assembly. The SSU is necessary for the biogenesis of the 18S rRNA. Cells that are depleted of SSU proteins will arrest in the G₁ phase of the cell cycle. KRR1, also known as HRB2 (HIV-1 Rev binding protein 2) or RIP-1 (Rev interacting protein 1), is a nonribosomal component of the small subunit processome (SSU). KRR1 is 381 amino acids in length and is evolutionarily conserved among human, yeast, fly, nematode and rice. KRR1 localizes to the nucleolus and is highly expressed in dividing cells. It contains one conserved KH domain (RNA-binding motif) and is a crucial component of the SSU, required for both rRNA maturation and ribosome biogenesis.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: KRR1 (human) mapping to 12q21.2; Krr1 (mouse) mapping to 10 D2.

SOURCE

KRR1 (H-200) is a rabbit polyclonal antibody raised against amino acids 32-231 mapping within an internal region of KRR1 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

KRR1 (H-200) is recommended for detection of KRR1 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 solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

KRR1 (H-200) is also recommended for detection of KRR1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for KRR1 siRNA (h): sc-95701, KRR1 siRNA (m): sc-146573, KRR1 shRNA Plasmid (h): sc-95701-SH, KRR1 shRNA Plasmid (m): sc-146573-SH, KRR1 shRNA (h) Lentiviral Particles: sc-95701-V and KRR1 shRNA (m) Lentiviral Particles: sc-146573-V.

Molecular Weight of KRR1: 44 kDa.

Positive Controls: HEK293 whole cell lysate: sc-45136 or HeLa whole cell lysate: sc-2200

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.

STORAGE

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

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.


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Try **KRR1 (F-9): sc-365192**, our highly recommended monoclonal alternative to KRR1 (H-200).