Ribosomal Protein L22 (D-7): sc-373993

BACKGROUND
Ribosomal Protein L22 is also known as heparin-binding protein HBp15, because it binds heparin in the submandibular gland and brain. This small protein is also associated with two small nuclear RNAs called EBERs (Epstein-Barr encoded RNAs). These RNAs are synthesized in large amounts by human B lymphocytes infected with Epstein-Barr virus (EBV). Ribosomal Protein L22, like L4, contains a globular domain that sits on the surface of the large ribosomal subunit and an extended loop that penetrates its core. These extensions contact multiple domains of 23S rRNA, indicating a potential, but not essential, role in rRNA folding during ribosomal assembly.

CHROMOSOMAL LOCATION
Genetic locus: RPL22 (human) mapping to 1p36.31; Rpl22 (mouse) mapping to 4 E2.

SOURCE
Ribosomal Protein L22 (D-7) is a mouse monoclonal antibody raised against amino acids 17-122 mapping within an internal region of Ribosomal Protein L22 of human origin.

PRODUCT
Each vial contains 200 µg IgG, kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Ribosomal Protein L22 (D-7) is available conjugated to agarose (sc-373993 AC), 500 µg/0.25 ml agarose in 1 ml, for WB; to HRP (sc-373993 HRP), 200 µg/ml, for WB, HRP(PE) and ELISA; to either phycoerythrin (sc-373993 PE), fluorescein (sc-373993 FITC), Alexa Fluor® 488 (sc-373993 AF488), Alexa Fluor® 546 (sc-373993 AF546), Alexa Fluor® 647 (sc-373993 AF647), 200 µg/ml, for WB (RGB), IF, HRP(PE), and FCM; to either Alexa Fluor® 680 (sc-373993 AF680) or Alexa Fluor® 790 (sc-373993 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS
Ribosomal Protein L22 (D-7) is recommended for detection of Ribosomal Protein L22 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

Suitable for use as control antibody for Ribosomal Protein L22 siRNA (h): sc-63349, Ribosomal Protein L22 siRNA (m): sc-63350, Ribosomal Protein L22 shRNA Plasmid (h): sc-63349-SH, Ribosomal Protein L22 shRNA Plasmid (m): sc-63350-SH, Ribosomal Protein L22 shRNA (h) Lentiviral Particles: sc-63349-V and Ribosomal Protein L22 shRNA (m) Lentiviral Particles: sc-63350-V.

Molecular Weight of Ribosomal Protein L22: 15 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201, HeLa whole cell lysate: sc-2200 or Hep G2 cell lysate: sc-2227.

RECOMMENDED SUPPORT REAGENTS
To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG® HRP BP-HRP or m-IgG® BP-FITC (Cruz Marker); sc-516102 or m-IgG® BP-PE; sc-516214 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 m-IgG® BP-FITC: sc-516140 or m-IgG® BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA
Ribosomal Protein L22 (D-7): sc-373993. Western blot analysis of Ribosomal Protein L22 expression in A-431 (A), HeLa (B), Jurkat (C), RAW 264.7 (D), Ob (E) and H19-7/GF III (F) whole cell lysates.

SELECT PRODUCT CITATIONS

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 for detailed protocols and support products.