Ribosomal Protein S6 (C-8): sc-74459

BACKGROUND
The genes encoding for mammalian ribosomal proteins comprise multigene families that consist predominantly of multiple processed pseudogenes and one functional intron-containing gene within their coding regions. The RPS6 gene gives rise to Ribosomal Protein S6 (also designated RPS6). RPS6 is the major substrate of protein kinases in eukaryotic ribosomes. Sequence comparison has identified RPS6 as the equivalent of the Ribosomal Protein S10 from Saccharomyces cerevisiae. The sequence comparison of ribosomal proteins from evolutionarily distant eukaryotes, such as yeast and human, indicates that the structure and probably the function of RPS6 has been highly conserved.

CHROMOSOMAL LOCATION
Genetic locus: RPS6 (human) mapping to 9p22.1; Rps6 (mouse) mapping to 4 C4.

SOURCE
Ribosomal Protein S6 (C-8) is a mouse monoclonal antibody raised against amino acids 1-249 of Ribosomal Protein S6 of human origin.

PRODUCT
Each vial contains 200 µg IgG2b kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Ribosomal Protein S6 (C-8) is available conjugated to agarose (sc-74459 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-74459 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycocerythrin (sc-74459 PE), fluorescein 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-74459 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; and to either Alexa Fluor® 680 (sc-74459 AF680) or Alexa Fluor® 790 (sc-74459 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IHC(P) and FCM; and to either Alexa Fluor® 647 (sc-74459 AF647), 200 µg/ml, for IF, Alexa Fluor® 594 (sc-74459 AF594) or Alexa Fluor® 647 (sc-74459 AF647), 200 µg/ml, for IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-74459 AF680) or Alexa Fluor® 790 (sc-74459 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS
Ribosomal Protein S6 (C-8) is recommended for detection of 40S Ribosomal Protein S6 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), 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).

Select suitable use as control antibody for Ribosomal Protein S6 siRNA (h): sc-36424, Ribosomal Protein S6 siRNA (m): sc-36425, Ribosomal Protein S6 shRNA Plasmid (h): sc-36424-SH, Ribosomal Protein S6 shRNA Plasmid (m): sc-36425-SH, Ribosomal Protein S6 shRNA (h) Lentiviral Particles: sc-36424-V and Ribosomal Protein S6 shRNA (m) Lentiviral Particles: sc-36425-V.

Molecular Weight of Ribosomal Protein S6: 32 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, K-562 whole cell lysate: sc-2203 or NIH/3T3 whole cell lysate: sc-2210.

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.