

# Ribosomal Protein S7 (FL-194): sc-135372

## BACKGROUND

Ribosomes, the organelles that catalyze protein synthesis, are composed of a small subunit (40S) and a large subunit (60S) that consist of over 80 distinct ribosomal proteins. Mammalian ribosomal proteins are encoded by multigene families that contain processed pseudogenes and one functional intron-containing gene within their coding regions. Ribosomal Protein S7, also known as RPS7, is a 194 amino acid protein that is a component of the 40S subunit. Localized to the cytoplasm, Ribosomal Protein S7 belongs to the S7e family of ribosomal proteins and functions in protein synthesis. Ribosomal Protein S7 interacts with MDM2 and is believed to negatively regulate the MDM2-mediated degradation of p53. In addition, Ribosomal Protein S7 may play a role in ribosomal stress, linking ribosome biogenesis to cell death or cell cycle arrest. Like most ribosomal proteins, Ribosomal Protein S7 exists as multiple processed pseudogenes that are scattered throughout the genome.

## CHROMOSOMAL LOCATION

Genetic locus: RPS7 (human) mapping to 2p25.3; Rps7 (mouse) mapping to 12 A2.

## SOURCE

Ribosomal Protein S7 (FL-194) is a rabbit polyclonal antibody raised against amino acids 1-194 representing full length Ribosomal Protein S7 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

Ribosomal Protein S7 (FL-194) is recommended for detection of Ribosomal Protein S7 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).

Ribosomal Protein S7 (FL-194) is also recommended for detection of Ribosomal Protein S7 in additional species, including canine, bovine, porcine and avian.

Suitable for use as control antibody for Ribosomal Protein S7 siRNA (h): sc-106511, Ribosomal Protein S7 siRNA (m): sc-152952, Ribosomal Protein S7 shRNA Plasmid (h): sc-106511-SH, Ribosomal Protein S7 shRNA Plasmid (m): sc-152952-SH, Ribosomal Protein S7 shRNA (h) Lentiviral Particles: sc-106511-V and Ribosomal Protein S7 shRNA (m) Lentiviral Particles: sc-152952-V.

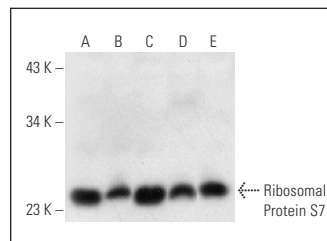
Molecular Weight of Ribosomal Protein S7: 22 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, Hep G2 cell lysate: sc-2227 or Jurkat whole cell lysate: sc-2204.

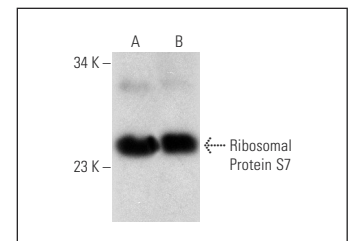
## RECOMMENDED SECONDARY REAGENTS

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.

## DATA



Ribosomal Protein S7 (FL-194): sc-135372. Western blot analysis of Ribosomal Protein S7 expression in HeLa (A), PC-12 (B), NIH/3T3 (C), A549 (D) and RAW 264.7 (E) whole cell lysates.



Ribosomal Protein S7 (FL-194): sc-135372. Western blot analysis of Ribosomal Protein S7 expression in Hep G2 (A) and Jurkat (B) whole cell lysates.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **Ribosomal Protein S7 (E-1): sc-377317** or **Ribosomal Protein S7 (44-K): sc-100834**, our highly recommended monoclonal alternatives to Ribosomal Protein S7 (FL-194).