

Ribosomal Protein S13 (N-19): sc-162098

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 S13 (RPS13), also known as 40S ribosomal protein S13, is a 151 amino acid cytoplasmic protein belonging to the Ribosomal Protein S15P family. The gene encoding Ribosomal Protein S13 maps to human chromosome 11p15.1 and mouse chromosome 7 F1 and contains multiple phosphorylated residues. Like most ribosomal proteins, Ribosomal Protein S13 exists as multiple processed pseudogenes that are scattered throughout the genome.

CHROMOSOMAL LOCATION

Genetic locus: RPS13 (human) mapping to 11p15.1; Rps13 (mouse) mapping to 7 F1.

SOURCE

Ribosomal Protein S13 (N-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of Ribosomal Protein S13 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.

Blocking peptide available for competition studies, sc-162098 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Ribosomal Protein S13 (N-19) is recommended for detection of Ribosomal Protein S13 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); non cross-reactive with other Ribosomal Proteins.

Ribosomal Protein S13 (N-19) is also recommended for detection of Ribosomal Protein S13 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Ribosomal Protein S13 siRNA (h): sc-96869, Ribosomal Protein S13 siRNA (m): sc-152934, Ribosomal Protein S13 shRNA Plasmid (h): sc-96869-SH, Ribosomal Protein S13 shRNA Plasmid (m): sc-152934-SH, Ribosomal Protein S13 shRNA (h) Lentiviral Particles: sc-96869-V and Ribosomal Protein S13 shRNA (m) Lentiviral Particles: sc-152934-V.

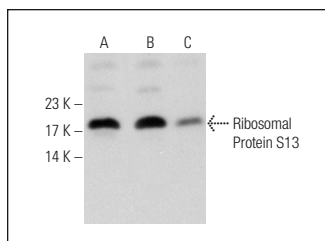
Molecular Weight of Ribosomal Protein S13: 17 kDa.

Positive Controls: COLO 320DM cell lysate: sc-2226, Hep G2 cell lysate: sc-2227 or HeLa whole cell lysate: sc-2200.

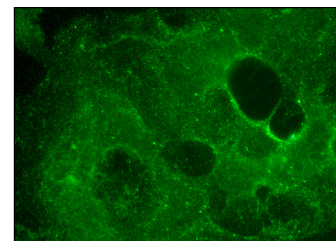
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Ribosomal Protein S13 (N-19): sc-162098. Western blot analysis of Ribosomal Protein S13 expression in COLO 320DM (A), HeLa (B) and Hep G2 (C) whole cell lysates.



Ribosomal Protein S13 (N-19): sc-162098. Immunofluorescence staining of formalin-fixed Hep G2 cells showing cytoplasmic and nuclear localization.

SELECT PRODUCT CITATIONS

- Gao, W., et al. 2010. Identification of NCAM that interacts with the PHE-CoV spike protein. *Virology* 7: 254.

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.

MONOS
Satisfaction
Guaranteed

Try **Ribosomal Protein S13 (C-3): sc-398690**, our highly recommended monoclonal alternative to Ribosomal Protein S13 (N-19).