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 S9 (RPS9), also known as 40S ribosomal protein S9, is a 194 amino acid protein that contains one S4 RNA-binding domain and belongs to the ribosomal protein S4P family. Ribosomal Protein S9 localizes to cytoplasm and has been identified as part of an mRNP granule complex. Like most ribosomal proteins, Ribosomal Protein S9 exists as multiple processed pseudogenes that are scattered throughout the genome. The gene encoding Ribosomal Protein S9 maps to human chromosome 19q13.42.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: RPS9 (human) mapping to 19q13.42; Rps9 (mouse) mapping to 7 A1.

SOURCE
Ribosomal Protein S9 (E-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Ribosomal Protein S9 of human origin.

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

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-162104 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS
Ribosomal Protein S9 (E-12) is recommended for detection of Ribosomal Protein S9 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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.

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) 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.

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.

Try Ribosomal Protein S9 (E-3): sc-390614, our highly recommended monoclonal alternative to Ribosomal Protein S9 (E-12).