

Ribosomal Protein S14 (H-130): sc-68873

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 S14, also known as RPS14 or EMTB, is a 151 amino acid component of the small ribosomal 40S subunit. Localized to the cytoplasm, Ribosomal Protein S14 is a member of the S11P family of ribosomal proteins and is highly conserved among several species. Defects in the gene encoding Ribosomal Protein S14 may cause resistance to emetine, a protein synthesis inhibitor found in Chinese hamster ovary cells. Multiple isoforms of this protein exist due to alternative splicing events.

CHROMOSOMAL LOCATION

Genetic locus: RPS14 (human) mapping to 5q33.1; Rps14 (mouse) mapping to 18 E1.

SOURCE

Ribosomal Protein S14 (H-130) is a rabbit polyclonal antibody raised against amino acids 1-130 mapping at the N-terminus of RPS14 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 S14 (H-130) is recommended for detection of Ribosomal Protein S14 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), 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); also recommended for detection of MGC87895 of human origin and EG545121 of mouse origin.

Ribosomal Protein S14 (H-130) is also recommended for detection of Ribosomal Protein S14 in additional species, including equine, canine, bovine and avian.

Suitable for use as control antibody for Ribosomal Protein S14 siRNA (h): sc-62966, Ribosomal Protein S14 siRNA (m): sc-62967, Ribosomal Protein S14 shRNA Plasmid (h): sc-62966-SH, Ribosomal Protein S14 shRNA Plasmid (m): sc-62967-SH, Ribosomal Protein S14 shRNA (h) Lentiviral Particles: sc-62966-V and Ribosomal Protein S14 shRNA (m) Lentiviral Particles: sc-62967-V.

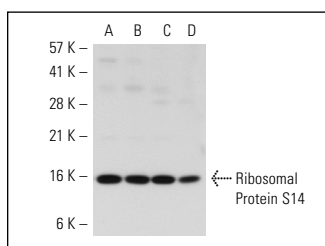
Molecular Weight of Ribosomal Protein S14: 16 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, K-562 whole cell lysate: sc-2203 or LADMAC whole cell lysate: sc-364189.

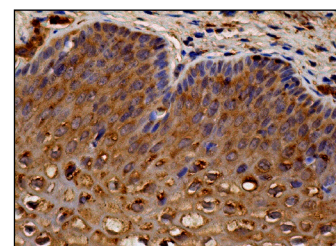
RECOMMENDED SECONDARY REAGENTS

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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



Ribosomal Protein S14 (H-130): sc-68873. Western blot analysis of Ribosomal Protein S14 expression in LADMAC (A), MCP-5 (B), K-562 (C) and HeLa (D) whole cell lysates.



Ribosomal Protein S14 (H-130): sc-68873. Immunoperoxidase staining of formalin fixed, paraffin-embedded human vagina tissue showing cytoplasmic staining of squamous epithelial cells.

SELECT PRODUCT CITATIONS

- Xiong, X., et al. 2014. Ribosomal protein S27-like is a physiological regulator of p53 that suppresses genomic instability and tumorigenesis. *Elife* 3: e02236.

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 S14 (3G5): sc-293478**, our highly recommended monoclonal alternative to Ribosomal Protein S14 (H-130).