BACKGROUND

Ribosomal subunits are synthesized in the nucleus and mature 40S and 60S subunits are exported stoichiometrically into the cytoplasm. Together these subunits are composed of four RNA species and approximately 80 structurally distinct proteins. Ribosomal Proteins have the ability to pass through the nuclear envelope in the native state, making them the largest of the structures accommodated by the nuclear pore complexes. The nuclear export of ribosomal subunits is a unidirectional, saturable and energy-dependent process.

Ribosomal Protein S19 (RPS19) is a 145 amino acids protein expressed in various human adult tissues, including bone marrow, peripheral blood, spleen, liver and nonhematopoietic tissues. RPS19 expression decreases during terminal erythroid differentiation; a deficiency of RPS19 blocks proliferation of immature erythroid progenitor cells altogether. Mutations in the RPS19 gene are linked with Diamond-Blackfan anemia (DBA), a congenital, hypoplastic, red cell aplasia that occasionally presents with physical anomalies.

CHROMOSOMAL LOCATION

Genetic locus: RPS19 (human) mapping to 19q13.2; Rps19 (mouse) mapping to 7 A3.

SOURCE

Ribosomal Protein S19 (WW-4) is a mouse monoclonal antibody raised against recombinant Ribosomal Protein S19 of human origin.

PRODUCT

Each vial contains 100 µg IgG2b kappa light chain in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Ribosomal Protein S19 (WW-4) is recommended for detection of Ribosomal Protein S19 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).


Molecular Weight of Ribosomal Protein S19: 16 kDa.

Positive Controls: Ribosomal Protein S19 (h2): 293T Lysate: sc-174526, Jurkat whole cell lysate: sc-2204 or HeLa whole cell lysate: sc-2200.

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.

DATA

SELECT PRODUCT CITATIONS


PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.