

Recombinant Human RPS19

Cat. No. RPS19-29469TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human RPS19 with a N terminal proprietary tag: predicted molecular weight 36.63 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes a ribosomal protein that is a component of the 40S subunit. The protein belongs to the S19E family of ribosomal proteins. It is located in the cytoplasm. Mutations in this gene cause Diamond-Blackfan anemia (DBA), a constitutional erythroblastopenia characterized by absent or decreased erythroid precursors, in a subset of patients. This suggests a possible extra-ribosomal function for this gene in erythropoietic differentiation and proliferation, in addition to its ribosomal function. Higher expression levels of this gene in some primary colon carcinomas compared to matched normal colon tissues has been observed. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome.
Molecular Weight	36.630kDa inclusive of tags

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Tissue specificity	Higher level expression is seen in the colon carcinoma tissue than normal colon tissue.
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	APYDENWFYTRAASTARHLYLRGGAGVGSM TKIYGGRQRNGVMPSHF SRGSKSVA RRVLQALEGLKMVEKDQDGG RKLTPQGQRDLDR IAGQVAAANKKH
Sequence Similarities	Belongs to the ribosomal protein S19e family.

GENE INFORMATION

Gene Name	RPS19 ribosomal protein S19 [Homo sapiens]
Official Symbol	RPS19
Synonyms	RPS19; ribosomal protein S19; 40S ribosomal protein S19; DBA; Diamond Blackfan anemia; S19;
Gene ID	6223
mRNA Refseq	NM_001022
Protein Refseq	NP_001013

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MIM	603474
Uniprot ID	P39019
Chromosome Location	19q13.2
Pathway	Activation of the mRNA upon binding of the cap-binding complex and eIFs, and subsequent binding to 43S, organism-specific biosystem; Cap-dependent Translation Initiation, organism-specific biosystem; Cytoplasmic Ribosomal Proteins, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Diabetes pathways, organism-specific biosystem;
Function	RNA binding; protein binding; structural constituent of ribosome;

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