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Immunotag™ Ribosomal Protein S19 Polyclonal Antibody

Antibody Specification

Catalog No.	ITT4126
Product Description	Immunotag™ Ribosomal Protein S19 Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	rRNA Protein S19
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC-p,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	Synthesized peptide derived from Ribosomal Protein S19, at AA range: 50-130
Specificity	Ribosomal Protein S19 Polyclonal Antibody detects endogenous levels of Ribosomal Protein S19 protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	RPS19
Accession No.	P39019 Q9CZX8 P17074
Alternate Names	RPS19; 40S ribosomal protein S19

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Description	ribosomal protein S19(RPS19) Homo sapiens 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
Cell Pathway/ Category	Ribosome,
Protein Expression	Bladder,Cervix carcinoma,Colon,Eye,Placenta,
Subcellular Localization	nucleoplasm,nucleolus,cytoplasm,cytosol,ribosome,focal adhesion,membrane,cytosolic small ribosomal subunit,extracellular matrix,extracellular exosome,
Protein Function	disease:Defects in RPS19 are the cause of Diamond-Blackfan anemia type 1 (DBA1) [MIM:105650]. DBA1 is a form of Diamond-Blackfan anemia, a congenital non-regenerative hypoplastic anemia that usually presents early in infancy. Diamond-Blackfan anemia is characterized by a moderate to severe macrocytic anemia, erythroblastopenia, and an increased risk of malignancy. 30 to 40% of Diamond-Blackfan anemia patients present with short stature and congenital anomalies, the most frequent being craniofacial (Pierre-Robin syndrome and cleft palate), thumb and urogenital anomalies.,function:Required for pre-rRNA processing and maturation of 40S ribosomal subunits.,similarity:Belongs to the ribosomal protein S19e family.,subcellular location:Located more specifically in the nucleoli.,subunit:Interacts with RPS19BP1.,tissue specificity:Higher level expression is seen in the colon carcinoma tissue than normal colon tissue.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.