Best Tools for immunology Research

Ribosomal Protein S19 Polyclonal Antibody

Catalog No :	YT4126
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	Ribosomal Protein S19
Fields :	>>Ribosome;>>Coronavirus disease - COVID-19
Gene Name :	RPS19
Protein Name :	40S ribosomal protein S19
Human Gene Id :	6223
Human Swiss Prot No :	P39019
Mouse Gene Id :	20085
Mouse Swiss Prot No :	Q9CZX8
Rat Gene Id :	1.0091e+008
Rat Swiss Prot No :	P17074
Immunogen :	The antiserum was produced against synthesized peptide derived from human RPS19. AA range:81-130
Specificity :	Ribosomal Protein S19 Polyclonal Antibody detects endogenous levels of Ribosomal Protein S19 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200

Purification : The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 16kD

Cell Pathway : Ribosome;

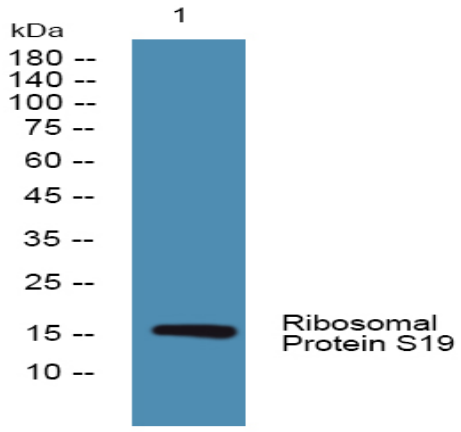
Background : Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes a ribosomal protein that is a component of the 40S 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

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

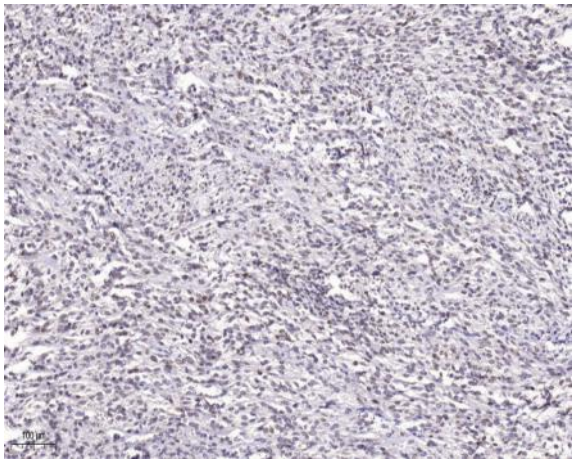
Subcellular Location : Nucleus . Located more specifically in the nucleoli.

Expression : Higher level expression is seen in the colon carcinoma tissue than normal colon tissue.

Products Images



Western blot analysis of lysates from KB cells, primary antibody was diluted at 1:1000, 4°over night



Immunohistochemical analysis of paraffin-embedded human Small intestinal stromal tumor. 1, Tris-EDTA,pH9.0 was used for antigen retrieval. 2 Antibody was diluted at 1:200(4° overnight.3,Secondary antibody was diluted at 1:200(room temperature, 45min).