

## **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

P39019

Q9CZX8

Human Gene ld: 6223

**Human Swiss Prot** 

No:

Mouse Gene Id: 20085

**Mouse Swiss Prot** 

No:

**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

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**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

ribosomal protein S19e family., subcellular location: Located more specifically in the nucleoli., subunit: Interacts with RPS19BP1., tissue specificity: Higher level

processing and maturation of 40S ribosomal subunits., similarity: Belongs to the

expression is seen in the colon carcinoma tissue than

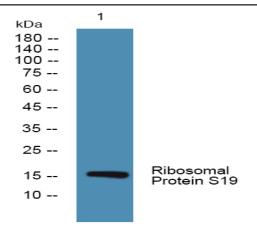
Subcellular Location:

Nucleus . Located more specifically in the nucleoli.

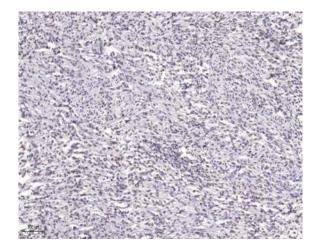
**Expression:** Higher level expression is seen in the colon carcinoma tissue than normal colon

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  $1:200(4^{\circ}$  overnight.3,Secondary antibody was diluted at 1:200(room temperature, 45min).