Best Tools for immunology Research

Ribosomal Protein L5 Polyclonal Antibody

Catalog No :	YT4117
Reactivity :	Human;Mouse;Rat
Applications :	WB;IP;IHC;IF;ELISA
Target :	Ribosomal Protein L5
Fields :	>>Ribosome;>>Coronavirus disease - COVID-19
Gene Name :	RPL5
Protein Name :	60S ribosomal protein L5
Human Gene Id :	6125
Human Swiss Prot No :	P46777
Mouse Gene Id :	1.00504e+008
Mouse Swiss Prot No :	P47962
Rat Gene Id :	81763
Rat Swiss Prot No :	P09895
Immunogen :	The antiserum was produced against synthesized peptide derived from human RPL5. AA range:161-210
Specificity :	Ribosomal Protein L5 Polyclonal Antibody detects endogenous levels of Ribosomal Protein L5 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000;IP 1:50-200;IHC 1:100-500;IF ICC 1:100-500;ELISA 1:5000-20000

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 : 34kD

Cell Pathway : Ribosome;

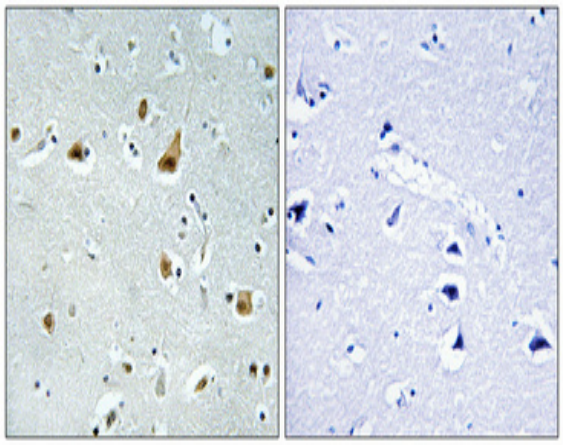
Background : Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes a ribosomal protein that is a component of the 60S subunit. The protein belongs to the L18P family of ribosomal proteins. It is located in the cytoplasm. The protein binds 5S rRNA to form a stable complex called the 5S ribonucleoprotein particle (RNP), which is necessary for the transport of nonribosome-associated cytoplasmic 5S rRNA to the nucleolus for assembly into ribosomes. The protein interacts specifically with the beta subunit of casein kinase II. Variable expression of this gene in colorectal cancers compared to adjacent normal tissues has been observed, although no correlation between the level of expression and the severity of the disease has been found

Function : disease:Defects in RPL5 are the cause of Diamond-Blackfan anemia type 6 (DBA6) [MIM:612561]. DBA6 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 rRNA maturation and formation of the 60S ribosomal subunits. This protein binds 5S RNA.,similarity:Belongs to the ribosomal protein L18P family.,

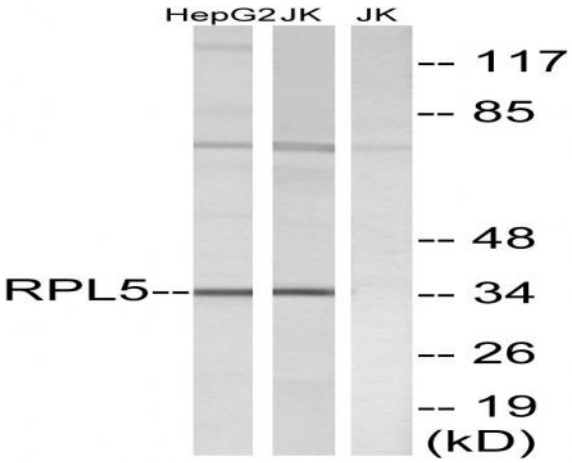
Subcellular Location : Cytoplasm . Nucleus, nucleolus .

Expression : Aorta,Brain,Cervix carcinoma,Colon,Coronary arterial endothelium,Lung,Lymph,Testis,

Products Images



Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.



Western blot analysis of lysates from Jurkat and HepG2 cells, using RPL5 Antibody. The lane on the right is blocked with the synthesized peptide.