

## Anti-RPL5 Polyclonal Antibody

Cat: K110236P

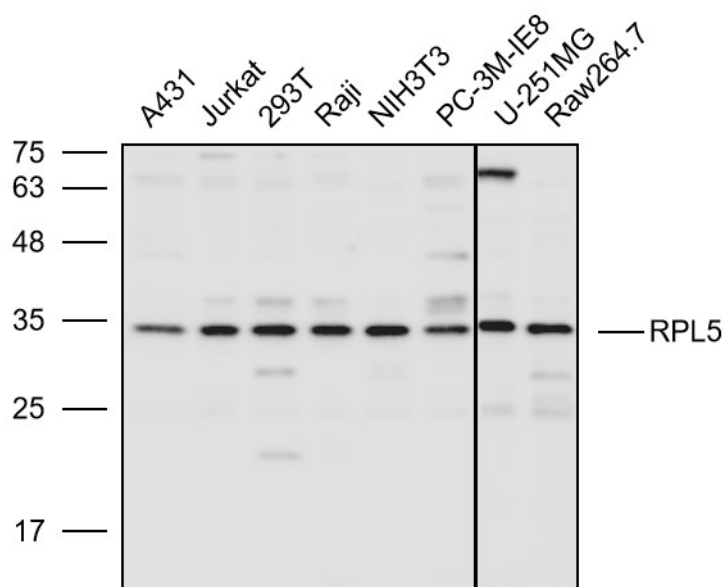
### Summary:

【Product name】: Anti-RPL5 antibody	【Source】: Rabbit
【Isotype】: IgG	【Species reactivity】: Human Mouse Rat
【Swiss Prot】: P46777	【Gene ID】: 6125
【Calculated】: MW:34kDa	【Observed】: MW:34kDa
【Purification】: Affinity purification	
【Tested applications】: WB IHC	
【Recommended dilution】: WB 1:1000-3000. IHC 1:50-200.	
【WB Positive sample】: A431, Jurkat, 293T, Raji, NIH3T3, PC-3M-IE8, U251MG, Raw264.7	
【IHC Positive sample】: Human colorectal cancer	
【Subcellular location】: Cytoplasm	
【Immunogen】: A synthetic peptide of human RPL5	
【Storage】: Shipped at 4°C. Upon delivery aliquot and store at -20°C	

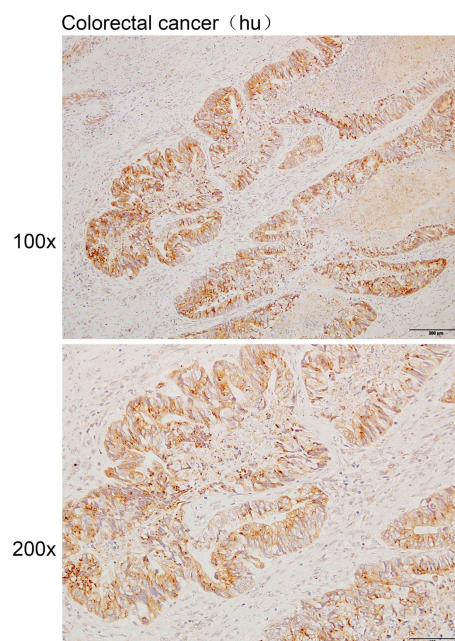
### Background:

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. This gene is co-transcribed with the small nucleolar RNA gene U21, which is located in its fifth intron. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome.

## Verified picture



Western blot analysis with RPL5 antibody diluted at 1:2000; Lane: A431, Jurkat, 293T, Raji, NIH3T3, PC-3M-IE8, U251MG, Raw264.7



Immunohistochemistry of paraffin-embedded Human colorectal cancer using RPL5 antibody diluted at 1:100