USA Tel: 1-877-374-4368 • Int. Tel: 1-718-484-3990
sales@epigentek.com • www.epigentek.com

RPL22 Polyclonal Antibody

(Catalog # A73420)

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 cytoplasmic ribosomal protein that is a component of the 60S subunit. The protein belongs to the L22E family of ribosomal proteins. Its initiating methionine residue is post-translationally removed. The protein can bind specifically to Epstein-Barr virus-encoded RNAs (EBERs) 1 and 2. The mouse protein has been shown to be capable of binding to heparin. Transcript variants utilizing alternative polyA signals exist. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome. It was previously thought that this gene mapped to 3q26 and that it was fused to the acute myeloid leukemia 1 (AML1) gene located at 21q22 in some therapy-related myelodysplastic syndrome patients with 3;21 translocations; however, these fusions actually involve a ribosomal protein L22 pseudogene located at 3q26, and this gene actually maps to 1p36.3-p36.2.

Description
RPL22 Polyclonal Antibody. Unconjugated. Raised in: Rabbit.

Formulation
Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Specificity
Human, Mouse, Rat

Isotype
IgG

Uniprot ID
P35268

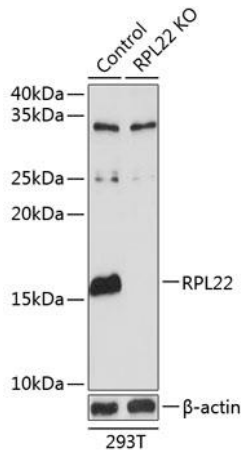
Purification
Affinity Purified

Immunogen
Recombinant fusion protein containing a sequence corresponding to amino acids 1-122 of human RPL22 (NP_000974.1)

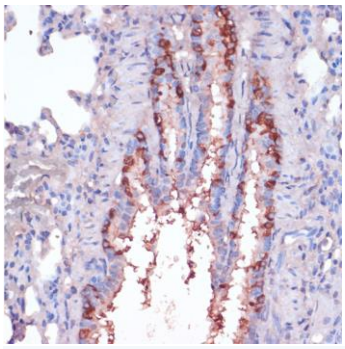
Storage
Shipped at 4°C. Store at -20°C. Avoid freeze / thaw cycles.

Alternative Names
RPL22; EAP; HBP15; HBP15/L22; L22

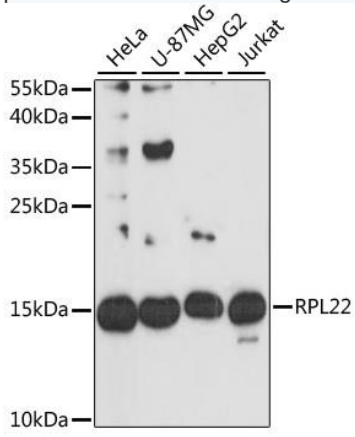
Application
WB, IHC, IF; Recommended dilution: WB 1:500 - 1:2000, IHC 1:50 - 1:100, IF 1:50 - 1:100



Western blot analysis of extracts from normal (control) and RPL22 knockout (KO) 293T cells, using RPL22 Polyclonal Antibody at 1:3000 dilution.
Secondary Antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in TBST. Exposure time: 90S.



Immunohistochemistry of paraffin embedded rat lung using RPL22 antibody at dilution of 1:100 (40x lens).
Performed microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Western blot analysis of extracts of various cell lines, using RPL22 antibody at 1:3000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in TBST.