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RPS2 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI14983

Specification

RPS2 antibody - N-terminal region - Product Information

Application	**WB**
Primary Accession	P15880
Other Accession	NM_002952, NP_002943
Reactivity	**Human, Mouse, Rat, Rabbit, Goat, Horse, Yeast, Bovine, Guinea Pig, Dog**
Predicted	**Human, Mouse, Rat, Chicken, Goat, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**32kDa KDa**

RPS2 antibody - N-terminal region - Additional Information

Gene ID 6187

Alias Symbol	**LLREP3, MGC102851, MGC117344, MGC117345, S2**

Other Names
40S ribosomal protein S2, 40S ribosomal protein S4, Protein LLRep3, RPS2, RPS4

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 50 ul of distilled water. Final anti-RPS2 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
RPS2 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

RPS2 antibody - N-terminal region - Protein Information

Name RPS2

Synonyms RPS4

Function
Component of the ribosome, a large ribonucleoprotein complex responsible for the synthesis of proteins in the cell (PubMed:23636399). The small ribosomal subunit (SSU) binds messenger RNAs (mRNAs) and translates the encoded message by selecting cognate aminoacyl-transfer RNA (tRNA) molecules (PubMed:<a href="http://www.uniprot.org/citations/23636399"

target="_blank">23636399). The large subunit (LSU) contains the ribosomal catalytic site termed the peptidyl transferase center (PTC), which catalyzes the formation of peptide bonds, thereby polymerizing the amino acids delivered by tRNAs into a polypeptide chain (PubMed:23636399). The nascent polypeptides leave the ribosome through a tunnel in the LSU and interact with protein factors that function in enzymatic processing, targeting, and the membrane insertion of nascent chains at the exit of the ribosomal tunnel (PubMed:23636399). Plays a role in the assembly and function of the 40S ribosomal subunit (By similarity). Mutations in this protein affects the control of translational fidelity (By similarity). Involved in nucleolar processing of pre-18S ribosomal RNA and ribosome assembly (By similarity).

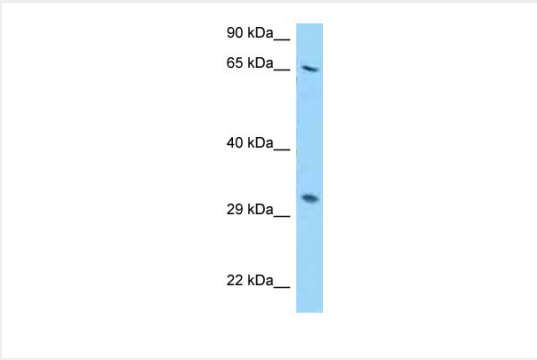
Cellular Location
Cytoplasm. Nucleus, nucleolus. Note=Probably localized to nucleolus and cytoplasm in complex with ZNF277.

RPS2 antibody - N-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

RPS2 antibody - N-terminal region - Images



WB Suggested Anti-RPS2 Antibody Titration: 1.0 µg/ml
Positive Control: HepG2 Whole CellThere is BioGPS gene expression data showing that RPS2 is expressed in HepG2

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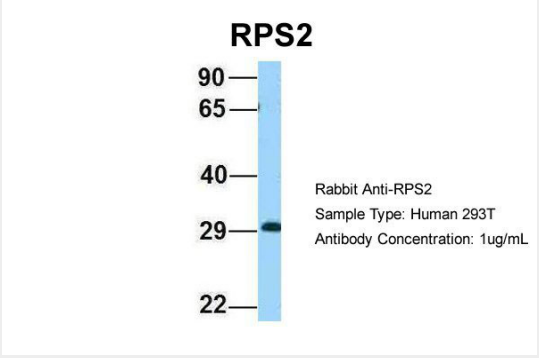

Host:Rabbit
Target Name:RPS2
Sample Tissue:Human 293T
Antibody Dilution: 1.0µg/mlRPS2 is strongly supported by BioGPS gene expression data to be expressed in Human HEK293T cells

RPS2 antibody - N-terminal region - References

Slynn G.,et al.Nucleic Acids Res. 18:681-681(1990).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
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Vladimirov S.N.,et al.Eur. J. Biochem. 239:144-149(1996).
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