

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

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**RPS2 antibody - N-terminal region - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">P15880</a>
Other Accession	<a href="#">NM_002952</a> , <a href="#">NP_002943</a>
Reactivity	<b>Human, Mouse, Rat, Rabbit, Goat, Horse, Yeast, Bovine, Guinea Pig, Dog</b>
Predicted Host	<b>Human, Mouse, Rat, Chicken, Goat, Dog</b>
Clonality	<b>Rabbit</b>
Calculated MW	<b>Polyclonal</b> <b>32kDa KDa</b>

**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: <http://www.uniprot.org/citations/23636399> target="\_blank">23636399</a>). The small ribosomal subunit (SSU) binds messenger RNAs (mRNAs) and translates the encoded message by selecting cognate aminoacyl-transfer RNA (tRNA) molecules (PubMed: <http://www.uniprot.org/citations/23636399>)

target="\_blank">23636399</a>). 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:<a href="http://www.uniprot.org/citations/23636399" target="\_blank">23636399</a>). 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:<a href="http://www.uniprot.org/citations/23636399" target="\_blank">23636399</a>). 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

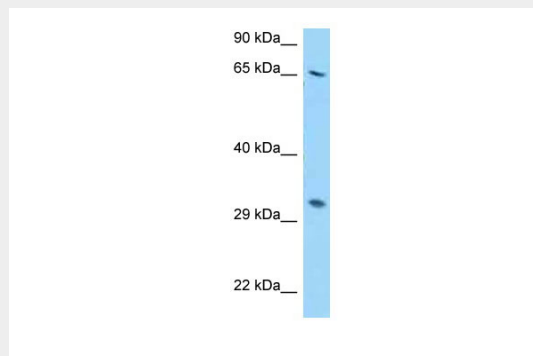
Cytoplasm. Nucleus, nucleolus. Note=Probably localized to nucleolus and cytoplasm in complex with ZNF277.

#### RPS2 antibody - N-terminal region - Protocols

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

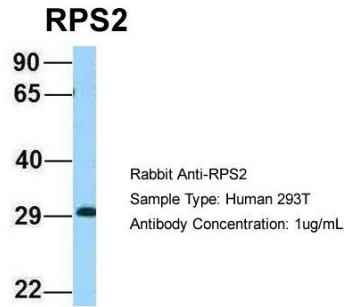
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### RPS2 antibody - N-terminal region - Images



WB Suggested Anti-RPS2 Antibody Titration: 1.0 µg/ml

Positive Control: HepG2 Whole Cell  
There is BioGPS gene expression data showing that RPS2 is expressed in HepG2



Host:Rabbit

Target Name:RPS2

Sample Tissue:Human 293T

Antibody Dilution: 1.0µg/ml RPS2 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).

Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.

Vladimirov S.N.,et al.Eur. J. Biochem. 239:144-149(1996).

Swiercz R.,et al.Biochem. J. 386:85-91(2005).