

# RPS2 antibody - middle region

Rabbit Polyclonal Antibody

Catalog # AI14982

## Product Information

---

<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">P15880</a>
<b>Other Accession</b>	<a href="#">NM_002952</a> , <a href="#">NP_002943</a>
<b>Reactivity</b>	Rat, Zebrafish, Pig, Dog, Yeast
<b>Predicted</b>	Mouse, Rat, Zebrafish, Chicken, Goat, Dog, Bovine
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	31324

## Additional Information

---

<b>Gene ID</b>	6187
<b>Alias Symbol</b> <b>Other Names</b>	LLREP3, MGC102851, MGC117344, MGC117345, S2 40S ribosomal protein S2, 40S ribosomal protein S4, Protein LLRep3, RPS2, RPS4
<b>Format</b>	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
<b>Reconstitution &amp; Storage</b>	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.
<b>Precautions</b>	RPS2 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

---

<b>Name</b>	RPS2
<b>Synonyms</b>	RPS4
<b>Function</b>	Component of the ribosome, a large ribonucleoprotein complex responsible for the synthesis of proteins in the cell (PubMed: <a href="#">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: <a href="#">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="#">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:[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.

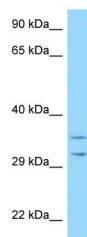
## References

---

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).

## Images

---



WB Suggested Anti-RPS2 Antibody Titration: 1.0 µg/ml  
Positive Control: Hela Whole Cell RPS2 is strongly supported by BioGPS gene expression data to be expressed in Human HeLa cells

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.