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Anti-RPS2 Antibody

Catalog # AP51489

Product Information

Application	WB
Primary Accession	P15880
Reactivity	Human, Mouse, Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	31324

Additional Information

Gene ID	6187
Other Names	RPS4; 40S ribosomal protein S2; 40S ribosomal protein S4; Protein LLRep3
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human RPS2. The exact sequence is proprietary.
Dilution	WB~~ 1:1000
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

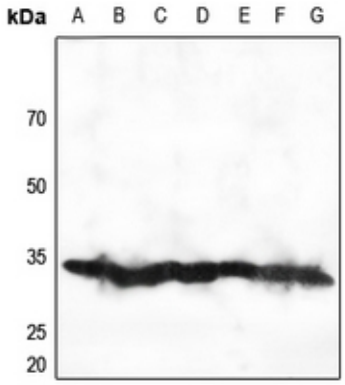
Name	RPS2
Synonyms	RPS4
Function	Component of the ribosome, a large ribonucleoprotein complex responsible for the synthesis of proteins in the cell (PubMed:23636399). The small ribosomal subunit (SSU) binds messenger RNAs (mRNAs) and translates the encoded message by selecting cognate aminoacyl-transfer RNA (tRNA) molecules (PubMed: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.

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



Western blot analysis of RPS2 expression in HEK293T (A), Hela (B), H460 (C), mouse lung (D), mouse brain (E), mouse kidney (F), rat kidney (G) whole cell lysates. (Predicted band size: 31 kD; Observed band size: 31 kD)

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