10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

RPS7 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI13907

Product Information

Application	WB
Primary Accession	P62081
Other Accession	NM_001011, NP_001002
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Dog
Predicted	Human, Mouse, Rat, Chicken, Dog, Guinea Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	22127

Additional Information

Gene ID	6201
Alias Symbol	S7, DBA8
Other Names	40S ribosomal protein S7, RPS7
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-RPS7 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	RPS7 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

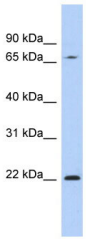
Name	RPS7 (HGNC:10440)
Function	Component of the small ribosomal subunit (PubMed: 23636399). The ribosome is a large ribonucleoprotein complex responsible for the synthesis of proteins in the cell (PubMed:23636399). Required for rRNA maturation (PubMed:19061985). Part of the small subunit (SSU) processome, first precursor of the small eukaryotic ribosomal subunit. During the assembly of the SSU processome in the nucleolus, many ribosome biogenesis factors, an RNA chaperone and ribosomal proteins associate with the nascent pre-rRNA and work in concert to generate RNA folding, modifications, rearrangements and cleavage as well as targeted degradation of pre-ribosomal RNA by the RNA exosome (PubMed:34516797).

Cellular Location	Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm. Nucleus, nucleolus Note=Although RPS7 is functional within the cytoplasm, the assembly of ribosomal subunits occurs in the nucleus. RPS7 nuclear import is mediated by IPO5/RanBP5, IPO7/RanBP7, KPNB1/importin-beta or TPNO1/Trn (PubMed:9687515). Colocalizes with NEK6 in the centrosome (PubMed:20873783).

References

Annilo T.,et al.Gene 165:297-302(1995).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Hillier L.W.,et al.Nature 434:724-731(2005).
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).

Images



WB Suggested Anti-RPS7 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:12500
Positive Control: Human Placenta