

RPS7 antibody - middle region

Rabbit Polyclonal Antibody Catalog # AI13908

Product Information

Application WB Primary Accession P62081

Other Accession NM 001011, NP 001002

Reactivity Human, Mouse, Rat, Rabbit, Zebrafish, Dog, Guinea Pig, Horse, Bovine, Yeast

Predicted Human, Mouse, Rat, Chicken, Dog, Guinea Pig, Horse

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 - middle 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: <u>23636399</u>). 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).

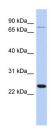
Cellular Location

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 μ g/ml ELISA Titer: 1:1562500

Positive Control: Human Liver

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