RPS7 Antibody (N-Term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5678

Specification

RPS7 Antibody (N-Term) - Product Information

Application	**WB, FC,E**
Primary Accession	P62081
Other Accession	A6H769, P62084, Q5RT64, P62082, P62083, P50894, P02362
Reactivity	**Human, Mouse**
Predicted	**Bovine, Zebrafish, Rat, Xenopus**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**H=22;M=22 KDa**
Isotype	**Rabbit IgG**
Antigen Source	**HUMAN**

RPS7 Antibody (N-Term) - Additional Information

Gene ID 6201

Antigen Region
7-40

Other Names
40S ribosomal protein S7, RPS7

Dilution
WB~~1:1000
FC~~1:25

Target/Specificity
This RPS7 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 7-40 amino acids from human RPS7.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
RPS7 Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

RPS7 Antibody (N-Term) - 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).

RPS7 Antibody (N-Term) - Protocols

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

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

RPS7 Antibody (N-Term) - Images
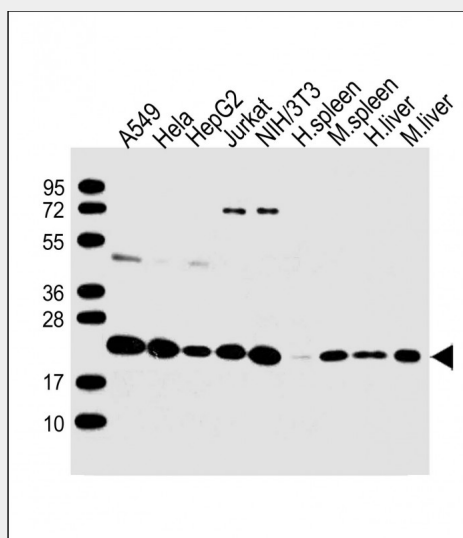
All lanes : Anti-RPS7 Antibody (N-Term) at 1:1000 dilution Lane 1: A549 whole cell lysate Lane 2:

Hela whole cell lysate Lane 3: HepG2 whole cell lysate Lane 4: Jurkat whole cell lysate Lane 5: NIH/3T3 whole cell lysate Lane 6: human spleen lysate Lane 7: mouse spleen lysate Lane 8: human liver lysate Lane 9: mouse liver lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 22 kDa Blocking/Dilution buffer: 5% NFDM/TBST.
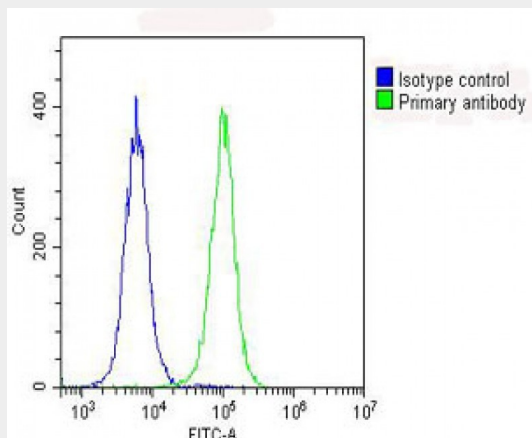
 Overlay histogram showing Hela cells stained with AW5678 (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AW5678, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OH191631) at 1/200 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was rabbit IgG (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

RPS7 Antibody (N-Term) - Background

 Required for rRNA maturation.

RPS7 Antibody (N-Term) - 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).