

RPS7 Antibody (clone 3G4)
Mouse Monoclonal Antibody
Catalog # ALS13385**Specification**

RPS7 Antibody (clone 3G4) - Product Information

Application	WB, IF, IHC
Primary Accession	P62081
Reactivity	Human, Mouse, Rat
Host	Mouse
Clonality	Monoclonal
Calculated MW	22kDa KDa

RPS7 Antibody (clone 3G4) - Additional Information**Gene ID** 6201**Other Names**

40S ribosomal protein S7, RPS7

Reconstitution & Storage

Store at -20°C. Aliquot to avoid freeze/thaw cycles.

Precautions

RPS7 Antibody (clone 3G4) is for research use only and not for use in diagnostic or therapeutic procedures.

RPS7 Antibody (clone 3G4) - Protein Information**Name** RPS7 ([HGNC:10440](#))**Function**

Component of the small ribosomal subunit (PubMed: [23636399](http://www.uniprot.org/citations/23636399)). The ribosome is a large ribonucleoprotein complex responsible for the synthesis of proteins in the cell (PubMed: [23636399](http://www.uniprot.org/citations/23636399)). Required for rRNA maturation (PubMed: [19061985](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/34516797)).

Cellular Location

Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm. Nucleus, nucleolus Note=Although RPS7 is functional within the cytoplasm, the assembly of ribosomal

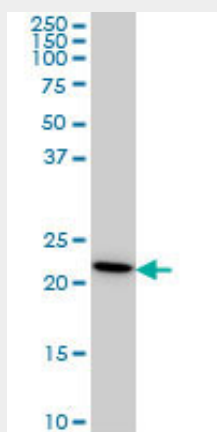
subunits occurs in the nucleus. RPS7 nuclear import is mediated by IPO5/RanBP5, IPO7/RanBP7, KPNB1/importin-beta or TPNO1/Trn (PubMed:9687515). Colocalizes with NEK6 in the centrosome (PubMed:20873783).

RPS7 Antibody (clone 3G4) - Protocols

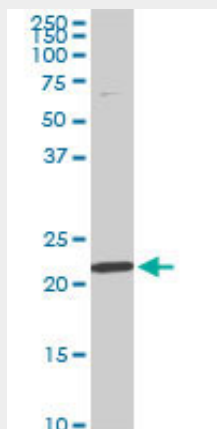
Provided below are standard protocols that you may find useful for product applications.

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

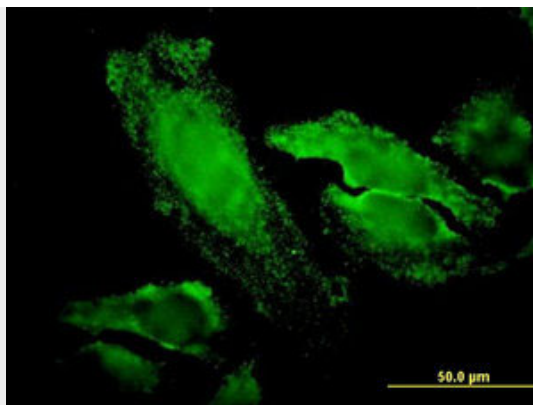
RPS7 Antibody (clone 3G4) - Images



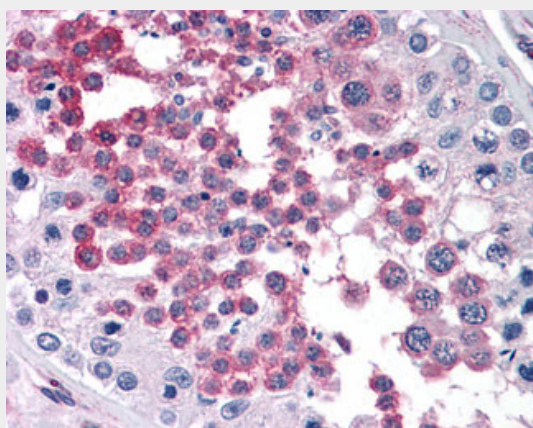
RPS7 monoclonal antibody clone 3G4 Western blot of RPS7 expression in HeLa.



RPS7 monoclonal antibody clone 3G4. Western blot of RPS7 expression in NIH/3T3.



Immunofluorescence of monoclonal antibody to RPS7 on HeLa cell (antibody concentration 20 ug/ml).



Anti-RPS7 antibody IHC of human testis.

RPS7 Antibody (clone 3G4) - Background

Required for rRNA maturation.

RPS7 Antibody (clone 3G4) - 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).