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

RPS6 Antibody (N-term)

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8432a

Product Information

Application	WB, FC, IF, IHC-P, E
Primary Accession	P62753
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine, Rabbit, Chicken
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Names	981CT2.1.1
Calculated MW	28681

Additional Information

Gene ID	6194
Other Names	40S ribosomal protein S6, Phosphoprotein NP33, RPS6
Target/Specificity	This RPS6 antibody is generated from a mouse immunized with RPS6 recombinant protein.
Dilution	WB~~1:1000 FC~~1:25 IF~~1:25 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
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	RPS6 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RPS6 {ECO:0000303|PubMed:29563586, ECO:0000312|HGNC:HGNC:10429}
Function	Component of the 40S small ribosomal subunit (PubMed: 23636399, PubMed:8706699). Plays an important role in controlling cell growth and proliferation through the selective translation of particular classes of mRNA (PubMed:17220279). 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. Nucleus, nucleolus

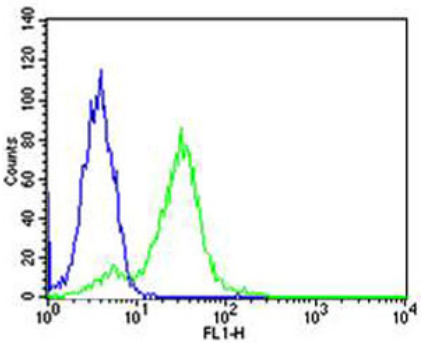
Background

May play an important role in controlling cell growth and proliferation through the selective translation of particular classes of mRNA.

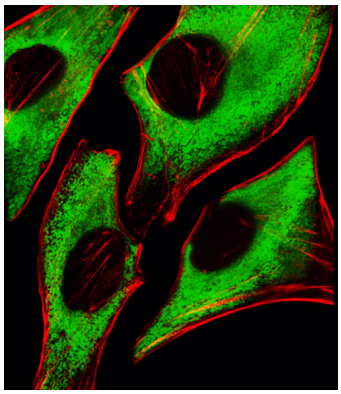
References

Lott J.B.,et al.Gene 65:31-39(1988).
Heinze H.,et al.J. Biol. Chem. 263:4139-4144(1988).
Antoine M.,et al.Hum. Mol. Genet. 1:565-570(1992).
Pata I.,et al.Gene 121:387-392(1992).
Shichijo S.,et al.Submitted (MAY-2001) to the EMBL/GenBank/DDBJ databases.

Images

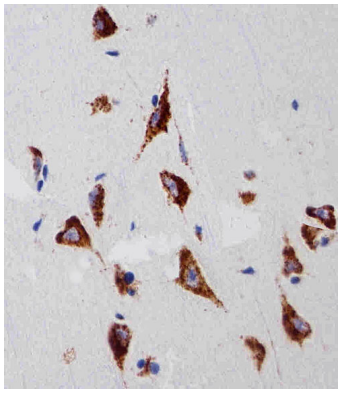


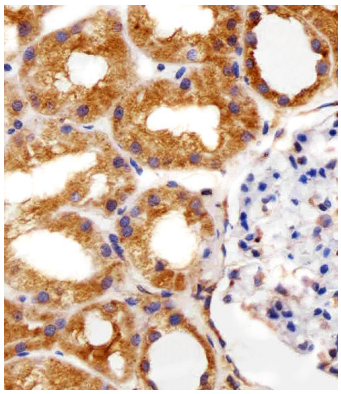
Flow cytometric analysis of Hela cells using RPS6 Antibody (N-term)(green, Cat#AM8432a) compared to an isotype control of mouse IgG1(blue). AM8432a was diluted at 1:25 dilution. An Alexa Fluor® 488 goat anti-mouse lgG at 1:400 dilution was used as the secondary antibody.



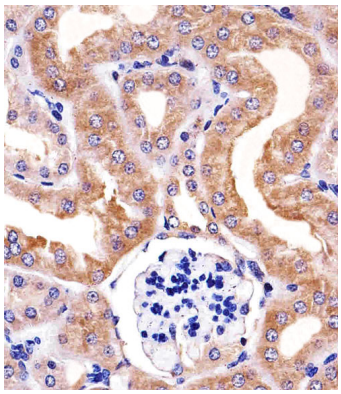
Fluorescent image of Hela cells stained with RPS6 Antibody (N-term)(Cat#AM8432a). AM8432a was diluted at 1:25 dilution. An Alexa Fluor® 488-conjugated goat anti-mouse lgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated with Phalloidin (red).

Immunohistochemical analysis of paraffin-embedded H. brain section using RPS6 Antibody (N-term)(Cat#AM8432a). AM8432a was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.

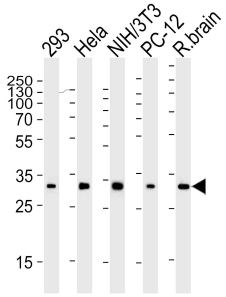




Immunohistochemical analysis of paraffin-embedded H. kidney section using RPS6 Antibody (N-term)(Cat#AM8432a). AM8432a was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



Immunohistochemical analysis of paraffin-embedded M. kidney section using RPS6 Antibody (N-term)(Cat#AM8432a). AM8432a was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



Western blot analysis of lysates from 293, Hela, mouse NIH/3T3, rat PC-12 cell line and rat brain tissue lysate(from left to right), using RPS6 Antibody (N-term)(Cat. #AM8432a). AM8432a was diluted at 1:2000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:3000 dilution was used as the secondary antibody. Lysates at 35µg per lane.

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