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RPS6 Antibody (N-term)

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AW5080

Product Information

Application	IHC-P, IF, FC, WB
Primary Accession	P62753
Other Accession	P62755, P62754, Q4R4K6
Reactivity	Human, Mouse, Rat
Predicted	Monkey
Host	Mouse
Clonality	Monoclonal
Calculated MW	28681
Isotype	IgG1
Antigen Source	HUMAN

Additional Information

Gene ID	6194
Antigen Region	1-239
Other Names	40S ribosomal protein S6, Phosphoprotein NP33, RPS6
Dilution	IHC-P~~1:100~500 IF~~1:25 FC~~1:25 WB~~1:1000
Target/Specificity	This RPS6 antibody is generated from a mouse immunized with RPS6 recombinant protein.
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

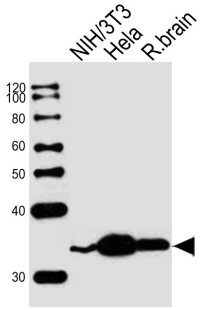
Background

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

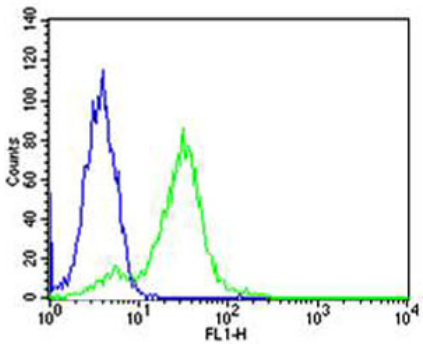
References

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

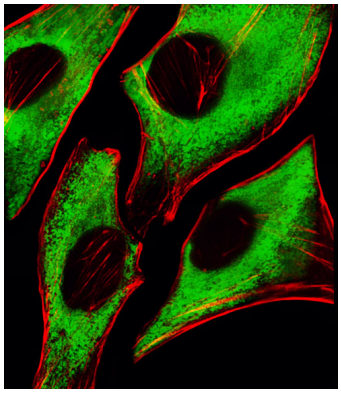


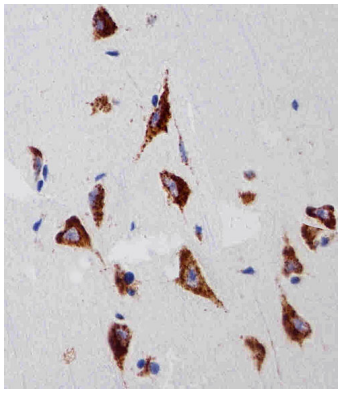
Western blot analysis of lysates from mouse NIH/3T3,Hela cell line,rat brain tissue lysate (from left to right), using RPS6 Antibody (N-term)(Cat. #AW5080). AW5080 was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.



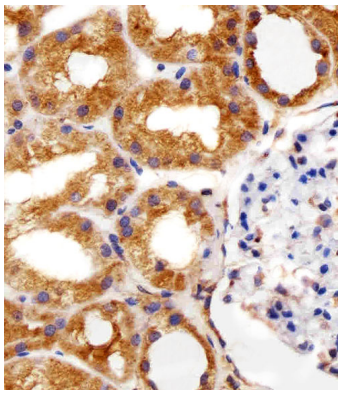
Flow cytometric analysis of Hela cells using RPS6 Antibody (N-term)(green, Cat#AW5080) compared to an isotype control of mouse IgG1(blue). AW5080 was diluted at 1:25 dilution. An Alexa Fluor® 488 goat anti-mouse lgG at 1:400 dilution was used as the secondary antibody.

Fluorescent image of Hela cells stained with RPS6 Antibody (N-term)(Cat#AW5080). AW5080 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).

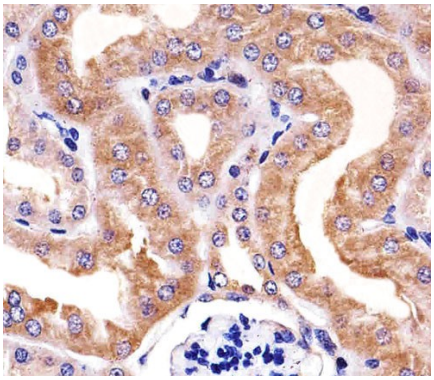




Immunohistochemical analysis of paraffin-embedded H. brain section using RPS6 Antibody (N-term)(Cat#AW5080). AW5080 was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



Immunohistochemical analysis of paraffin-embedded H. kidney section using RPS6 Antibody (N-term)(Cat#AW5080). AW5080 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#AW5080). AW5080 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.