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 # AW5080

Specification

RPS6 Antibody (N-term) - Product Information

Application	**IF, WB, IHC-P, FC,E**
Primary Accession	P62753
Other Accession	P62755, P62754, Q4R4K6
Reactivity	**Human, Mouse, Rat**
Predicted	**Monkey**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**H=29;M=29;Rat=29 KDa**
Isotype	**IgG1**
Antigen Source	**HUMAN**

RPS6 Antibody (N-term) - Additional Information

Gene ID 6194

Antigen Region
1-239

Other Names
40S ribosomal protein S6, Phosphoprotein NP33, RPS6

Dilution
IF~~1:25
WB~~1:1000
IHC-P~~1:25
FC~~1:25

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.

RPS6 Antibody (N-term) - 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).

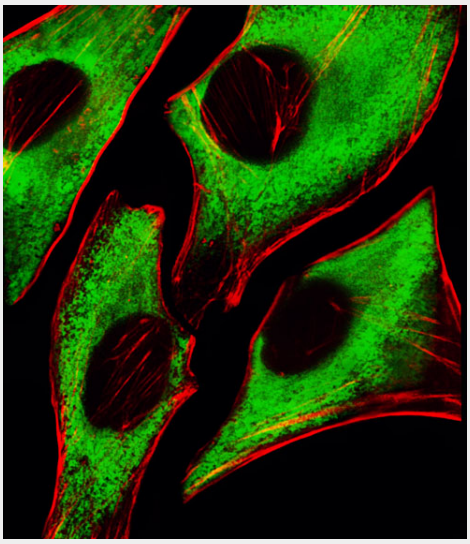
Cellular Location
Cytoplasm. Nucleus, nucleolus

RPS6 Antibody (N-term) - Protocols

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

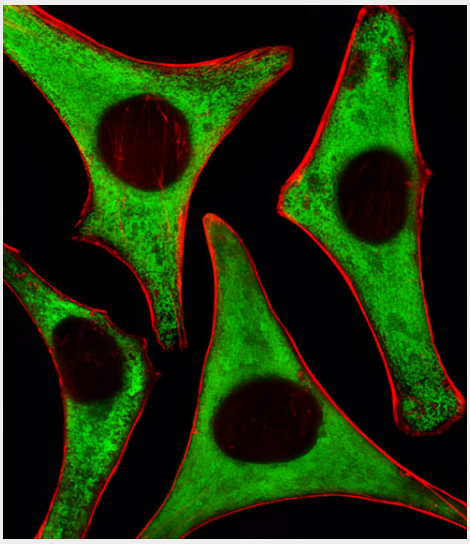
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

RPS6 Antibody (N-term) - Images

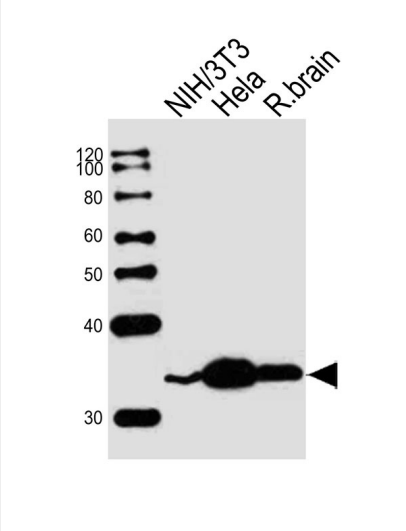


Fluorescent image of Hela cells stained with RPS6 Antibody (N-term)(Cat#AW5080). AW5080 was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-mouse IgG at 1:400 dilution was

used as the secondary antibody (green). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated with Phalloidin (red).



Fluorescent image of Hela cells stained with RPS6 Antibody (N-term)(Cat#AW5381). AW5381 was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated with Phalloidin (red).



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.

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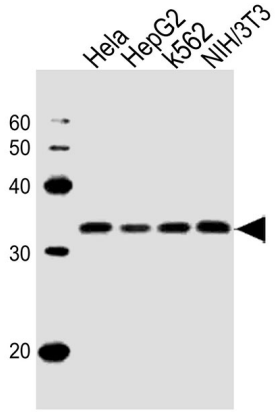
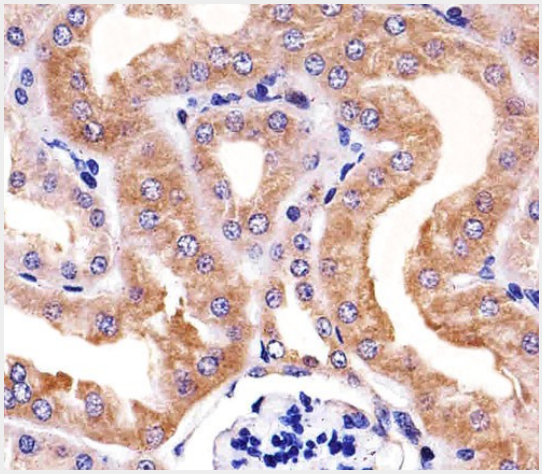


All lanes : Anti-RPS6 Antibody (N-term) at 1:1000 dilution Lane 1: Hela whole cell lysates Lane 2: HepG2 whole cell lysates Lane 3: K562 whole cell lysates Lane 4: NIH/3T3 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Mouse IgG, (H+L),Peroxidase conjugated at 1/10000 dilution Predicted band size : 29 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



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.

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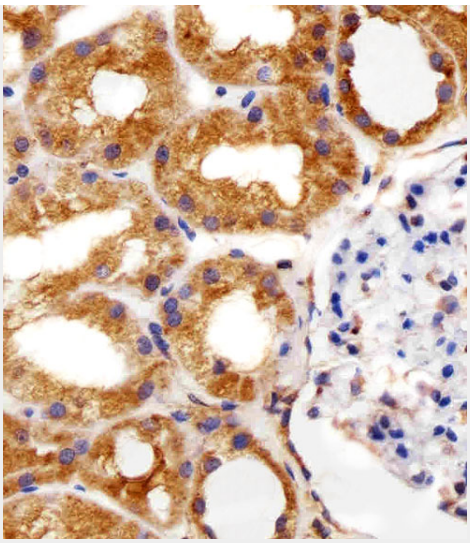
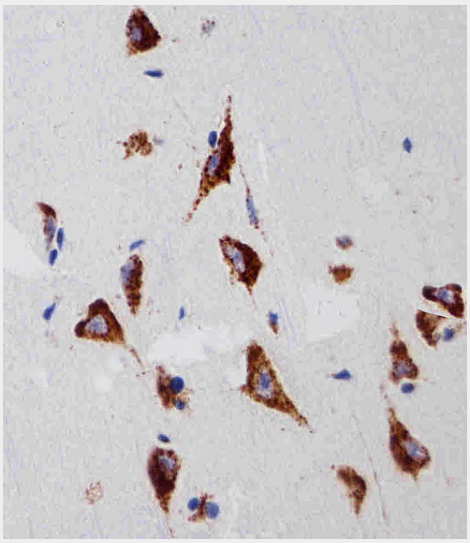


Immunohistochemical analysis of paraffin-embedded H. kidney section using RPS6 Antibody (N-term)(Cat#AW5080). AW5080 was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



Immunohistochemical analysis of paraffin-embedded 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.

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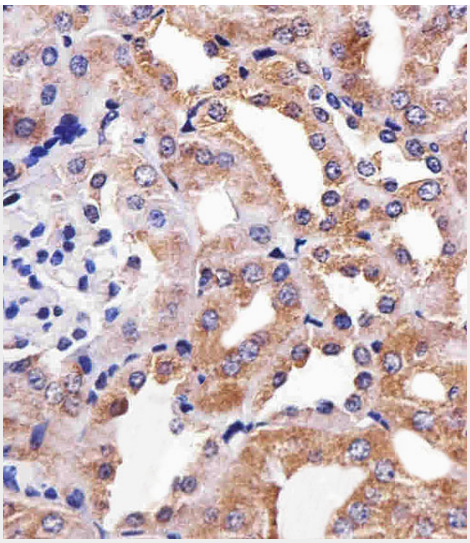
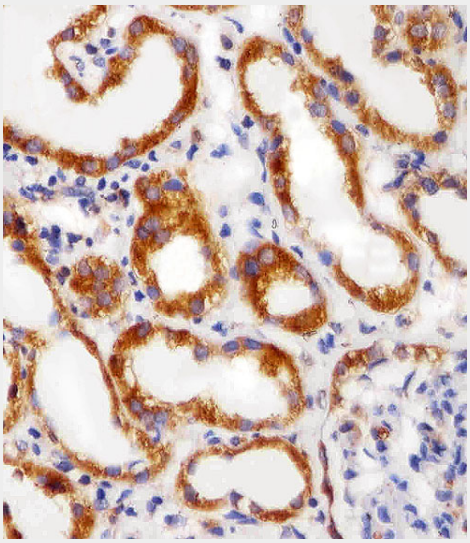


Immunohistochemical analysis of paraffin-embedded M. kidney section using RPS6 Antibody (N-term)(Cat#AW5381). AW5381 was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



Immunohistochemical analysis of paraffin-embedded H. kidney section using RPS6 Antibody (N-term)(Cat#AW5381). AW5381 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.

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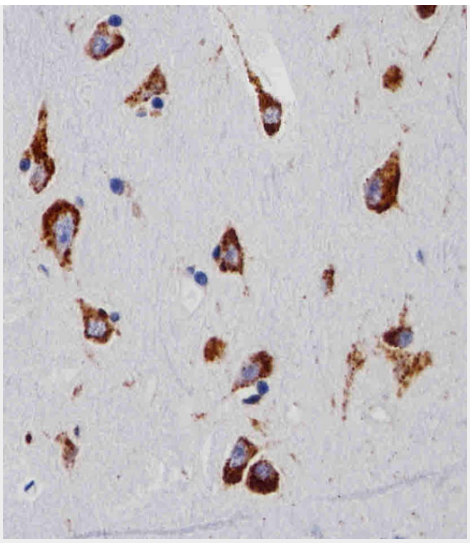
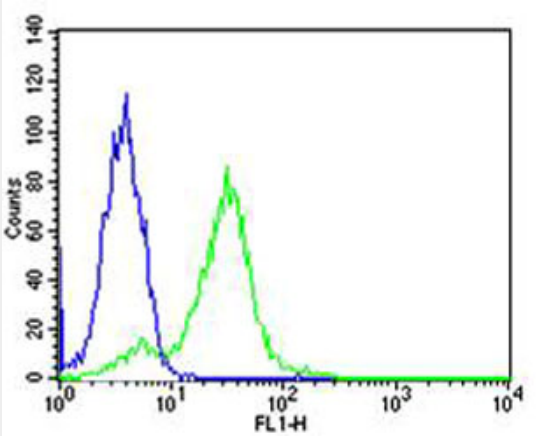
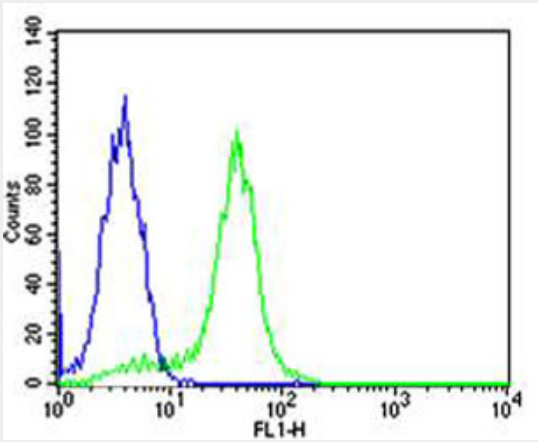


Immunohistochemical analysis of paraffin-embedded H. brain section using RPS6 Antibody (N-term)(Cat#AW5381). AW5381 was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



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 IgG at 1:400 dilution was used as the secondary antibody.



Flow cytometric analysis of Hela cells using RPS6 Antibody (N-term)(green, Cat#AW5381) compared to an isotype control of mouse IgG1(blue). AW5381 was diluted at 1:25 dilution. An Alexa Fluor® 488 goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody.

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RPS6 Antibody (N-term) - Background

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

RPS6 Antibody (N-term) - 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.