

## Rabbit RPS6 Polyclonal Antibody | anti-RPS6 antibody

Anti-RPS6 Antibody, Rabbit Polyclonal

| CATALOG # | HOST   | REACTIVITY                                                                                                                   | APPLICATIONS                                                  |
|-----------|--------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| AAA255051 | Rabbit | Mouse, Rat, Human<br>Predicted to React with: Bovin, Cynomolgus (Species predicted to react based on 100% sequence homology) | Immunofluorescence, Immunocytochemistry, Immunohistochemistry |

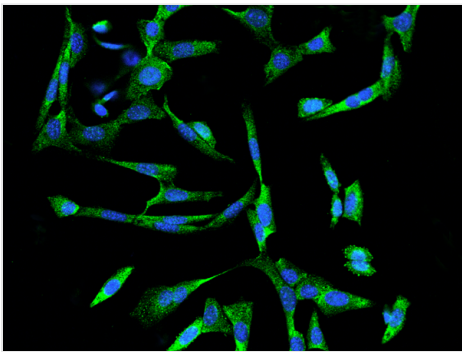
### PRODUCT SYNONYMS

RPS6; Polyclonal Antibody; Anti-RPS6 Antibody; Rabbit Polyclonal; RPS6 Antibody; Rabbit PAb; Antigen Affinity Purified; ribosomal protein S6; Anti-S6R Antibody; anti-RPS6 antibody

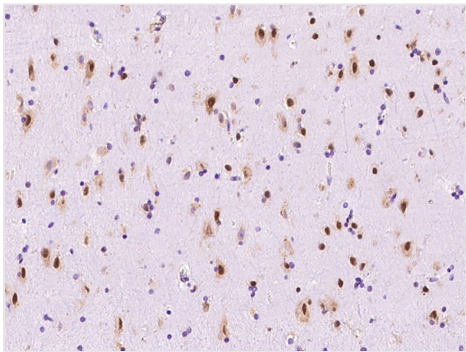
### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                                                    |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                                                             |
| Reactivity                                     | Mouse, Rat, Human<br>Predicted to React with: Bovin, Cynomolgus (Species predicted to react based on 100% sequence homology)                                                                                                                       |
| Clonality                                      | Polyclonal                                                                                                                                                                                                                                         |
| Isotype                                        | Rabbit IgG                                                                                                                                                                                                                                         |
| Specificity                                    | Mouse RPS6                                                                                                                                                                                                                                         |
| Purity/Purification                            | Protein A & Antigen Affinity                                                                                                                                                                                                                       |
| Form/Format                                    | Liquid; PBS, pH7.0 with 0.03% Proclin300                                                                                                                                                                                                           |
| Applicable Applications for anti-RPS6 antibody | IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry)                                                                                                                                                                     |
| Immunogen                                      | A synthetic peptide corresponding to the center region of the Mouse RPS6                                                                                                                                                                           |
| Conjugation                                    | Unconjugated                                                                                                                                                                                                                                       |
| Preparation                                    | Produced in rabbits immunized with a synthetic peptide corresponding to the center region of the Mouse RPS6, and purified by antigen affinity chromatography.                                                                                      |
| Preparation and Storage                        | This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles. |

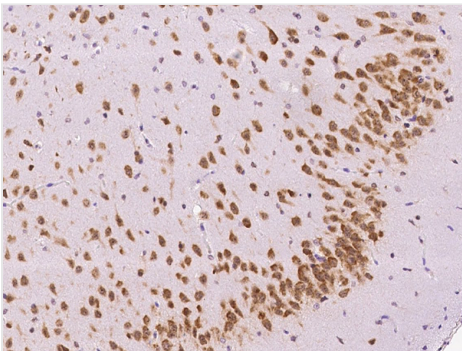
IMAGES



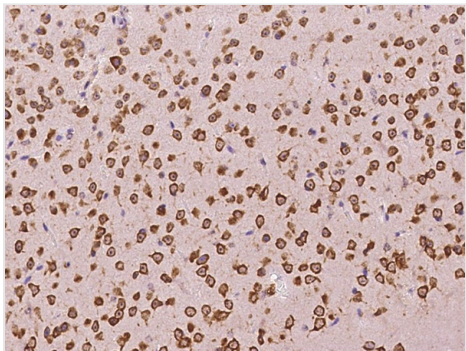
**IF (Immunofluorescence)**  
Immunofluorescence staining of RPS6 in NIH/3T3 cells. Cells were fixed with 4% PFA, permeabilized with 0.1% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human RPS6 polyclonal antibody (dilution ratio 1:200) at 4 degree C overnight. Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to Cytoplasm.



**IHC (Immunohistochemistry)**  
Immunochemical staining RPS6 in human brain with rabbit polyclonal antibody at 1:300 dilution, formalin-fixed paraffin embedded sections.



**IHC (Immunohistochemistry)**  
Immunochemical staining RPS6 in rat brain with rabbit polyclonal antibody at 1:300 dilution, formalin-fixed paraffin embedded sections.



**IHC (Immunohistochemistry)**  
Immunochemical staining RPS6 in mouse brain with rabbit polyclonal antibody at 1:300 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-RPS6 antibody | Ribosomal protein S6 (rpS6), a component of the 40S ribosomal subunit, is involved in multiple cellular bioactivities. RPS6 is a downstream substrate of PI3K/Akt/mTOR/ kinase and MAPK kinase pathways and its dephosphorylation is also triggered by DNA double-strand breaks. The ribosomal protein S6 (RPS6) is a downstream component of the signaling mediated by the target of rapamycin (TOR) kinase that acts as a central regulator of the key metabolic processes, such as protein translation and ribosome biogenesis, in response to various environmental cues. mTORC1/rpS6 signaling complex promoted Sertoli blood-testis barrier (BTB) remodeling by perturbing Sertoli cell-cell adhesion site known as the basal ectoplasmic specialization (ES). mTORC1/rpS6 complex also promoted disruption of spermatid adhesion at the Sertoli-spermatid interface called the apical ES. |
| Product Categories/Family for anti-RPS6 antibody   | AMPK Signaling Pathway                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| References                                         | Wu S, et al. (2019) Mtorc1/rps6 and spermatogenic function in the testis-insights from the adjudin model. Reprod Toxicol 89 54-66.Son O, et al. (2015) Identification of nucleosome assembly protein 1 (nap1) as an interacting partner of plant ribosomal protein s6 (rps6) and a positive regulator of rdna transcription. Biochem Biophys Res Commun 465 (2): 200-205.Grundy M, et al. (2018) Early changes in rps6 phosphorylation and bh3 profiling predict response to chemotherapy in aml cells. PLoS One 13 (5): e0196805.                                                                                                                                                                                                                                                                                                                                                               |

NCBI AND UNIPROT INFORMATION

|             |         |
|-------------|---------|
| NCBI GI #   | 6677809 |
| NCBI GeneID | 20104   |

|                                  |                                               |
|----------------------------------|-----------------------------------------------|
| NCBI Accession #                 | NP_033122.1                                   |
| NCBI GenBank Nucleotide #        | NM_009096.3                                   |
| UniProt Accession #              | P62754; P08227; P10660                        |
| Molecular Weight                 | 28                                            |
| NCBI Official Full Name          | 40S ribosomal protein S6                      |
| NCBI Official Synonym Full Names | ribosomal protein S6                          |
| NCBI Official Symbol             | Rps6                                          |
| NCBI Official Synonym Symbols    | S6R                                           |
| NCBI Protein Information         | 40S ribosomal protein S6; phosphoprotein NP33 |
| UniProt Protein Name             | 40S ribosomal protein S6                      |
| UniProt Gene Name                | <b>Rps6</b>                                   |
| UniProt Entry Name               | RS6_MOUSE                                     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)

Online datasheet: <https://www.aaabiotech.com/polyclonal/rps6-antibody-immunofluorescence-immunocytochemistry-immunohistochemistry-elisa/255051>