

# Product Datasheet

## Ribosomal Protein S6/RPS6 Antibody NB100-1595

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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**NB100-1595****Ribosomal Protein S6/RPS6 Antibody**

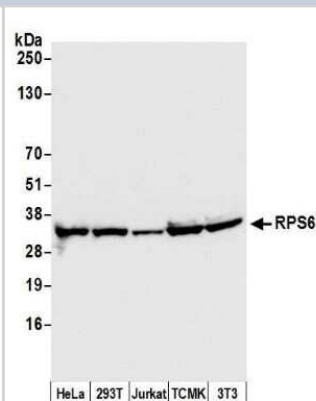
<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	0.2 mg/ml
<b>Storage</b>	Store at 4C. Do not freeze.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.09% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	TBS and 0.1% BSA
<b>Target Molecular Weight</b>	29 kDa

<b>Product Description</b>	
<b>Host</b>	Rabbit
<b>Gene ID</b>	6194
<b>Gene Symbol</b>	RPS6
<b>Species</b>	Human, Mouse
<b>Reactivity Notes</b>	X. laevis (100%).
<b>Immunogen</b>	The immunogen recognized by this antibody maps to a region between residue 200 and the C-terminus (residue 249) of human Ribosomal Protein S6 using the numbering given in entry NP_001001.2 (GeneID 6194).

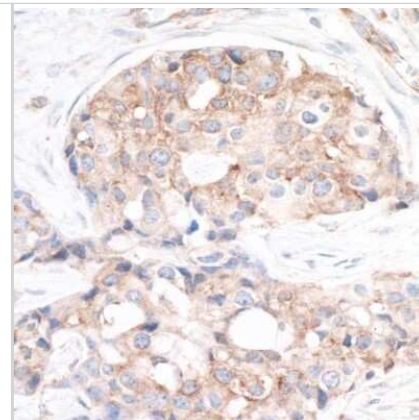
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot 1:2000-1:10000, Immunohistochemistry, Immunoprecipitation 2-10 ug/mg lysate, Immunohistochemistry-Paraffin 1:200-1:1000
<b>Application Notes</b>	Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE tissue sections.

**Images**

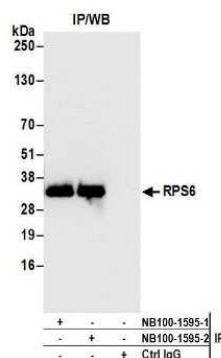
Western Blot: Ribosomal Protein S6/RPS6 Antibody [NB100-1595] - Detection of human and mouse RPS6 by western blot. Samples: Whole cell lysate (50 ug) from HeLa, HEK293T, Jurkat, mouse TCMK-1, and mouse NIH 3T3 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-RPS6 antibody NB100-1595 used for WB at 0.04 ug/ml. Detection: Chemiluminescence with an exposure time of 1 second. Previous



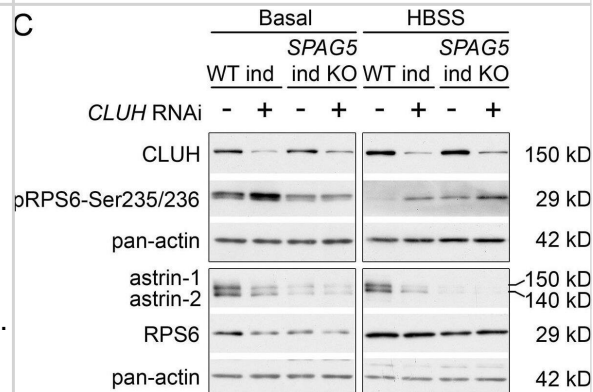
Immunohistochemistry-Paraffin: Ribosomal Protein S6/RPS6 Antibody [NB100-1595] - Section of human lung carcinoma. Antibody: Affinity purified rabbit anti-RPS6 (NB100-1595). Detection: DAB



Immunoprecipitation: Ribosomal Protein S6/RPS6 Antibody [NB100-1595] - Detection of human RPS6 by western blot of immunoprecipitates. Samples: Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from HeLa cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-RPS6 antibody NB100-1595 (lot NB100-1595-2) used for IP at 6 ug per reaction. RPS6 was also immunoprecipitated by a previous lot of this antibody (lot NB100-1595-1). For blotting immunoprecipitated RPS6, NB100-1595 was used at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 1 second.



Western Blot: Ribosomal Protein S6/RPS6 Antibody [NB100-1595] - Loss of SPAG5 & CLUH lead to hyperactivation of mTORC1 signaling. (A, B) MSigDB Hallmark pathways of downregulated (E) or upregulated (F) proteins (with a cutoff of  $p \leq 0.05$ ;  $q \leq 0.15$ ) detected in proteomics analysis of SPAG5 ind-KO cells (Figure 4A, Supplementary file 3) using the EnrichR webtool. (C) Western blots of WT & SPAG5 ind-KO HeLa cells transfected with siRNA against CLUH or untargeted control siRNA. Cells were induced for 4 days with doxycycline, additionally downregulated for the last 3 days & grown for the last 8 hr in basal or HBSS media without doxycycline. Pan-actin was used as loading control. (D) Quantification of experiments as shown in C ( $n = 4$  independent experiments). Antibody signal was normalized to pan-actin signal, & signal of phospho-protein was normalized to signal of the total protein. Bars show mean  $\pm$  standard error of the mean (SEM) & dots represent values of individual replicates. One-way analysis of variance (ANOVA) with post hoc Tukey's multiple comparison tests were performed with  $*p \leq 0.05$ ;  $**p \leq 0.01$ ;  $***p \leq 0.001$ . Figure 5—figure supplement 1—source data 1. Uncropped blots for Figure 5—figure supplement 1C. Figure 5—figure supplement 1—source data 2. Unedited blots for Figure 5—figure supplement 1C. Uncropped blots for Figure 5—figure supplement 1C. Unedited blots for Figure 5—figure supplement 1C. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/35559794>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Schatton D, Di Pietro G, Szczepanowska K et al. CLUH controls astrin-1 expression to couple mitochondrial metabolism to cell cycle progression *eLife* 2022-05-13 [PMID: 35559794]

De Luca C, Gupta A, Bortvin A Retrotransposon LINE-1 bodies in the cytoplasm of piRNA-deficient mouse spermatocytes: Ribonucleoproteins overcoming the integrated stress response *PLoS genetics* 2023-06-01 [PMID: 37307272] (IF, WB, Mouse)

Zaganjor E, Yoon H, Spinelli JB et al. SIRT4 is an early regulator of branched-chain amino acid catabolism that promotes adipogenesis *Cell reports* 2021-07-13 [PMID: 34260923] (WB)

Pla-Martin D, Schatton D, Wiederstein JI et Al. CLUH granules coordinate translation of mitochondrial proteins with mTORC1 signaling and mitophagy *EMBO J.* 2020-03-09 [PMID: 32149416] (WB, Mouse)

Gao J, Schatton D, Martinelli P et al. CLUH regulates mitochondrial biogenesis by binding mRNAs of nuclear-encoded mitochondrial proteins. *CLUH regulates mitochondrial biogenesis by binding mRNAs of nuclear-encoded mitochondrial proteins.* 2014-10-27 [PMID: 25349259] (WB, Human, Mouse)

Castaneda J, Genzor P, van der Heijden GW et al. Reduced pachytene piRNAs and translation underlie spermiogenic arrest in Maelstrom mutant mice. *EMBO J.* 2014-07-25 [PMID: 25063675] (WB, Mouse)

### Details:

RPS6 antibody/rabbit anti-RPS6 used in WB assay to verify sucrose gradient performance in sucrose density gradient sedimentation profiles testing of MAEL (Maelstrom) and MIWI (Piwi partner of pachytene piRNAs) in native protein lysates from adult WT mouse testes - puromycin/untreated and EDTA/untreated samples (Figure 8A, B, C).





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### **Products Related to NB100-1595**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP1-87099PEP	Ribosomal Protein S6/RPS6 Recombinant Protein Antigen

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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