# RPS24 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | RPS24, Polyclonal Antibody |
| **Full Product Name** | RPS24 Rabbit pAb |
| **Product Gene Name** | anti-RPS24 antibody |
| **Product Synonym Names** | S24; DBA3; eS24 |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse, Rat |
| **Form/Format** | PBS with 0.02% Sodium Azide, 50% Glycerol, pH 7.3. |
| **Purity/Purification** | Affinity Purified |
| **Preparation and Storage** | Store at -20 degree C. Avoid freeze/thaw cycles. |
| **Molecular Weight** | 19kDa |
| **OMIM** | 602412 |
| **3D Structure** | ModBase 3D Structure for P62847 |
| **Immunogen** | Recombinant fusion protein containing a sequence corresponding to amino acids 1-130 of human RPS24 (NP_148982.1). |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-RPS24 antibody** | Western Blot (WB), Immunoprecipitation (IP) |
| **Application Notes for anti-RPS24 antibody** | WB: 1:500-1:2000<br>IP: 1:50-1:100 |
| **Related Product Information for anti-RPS24 antibody** | MBS8548634 is an antibody targeting RPS24. Also known as RPS24 Rabbit pAb. Reactive in Human, Mouse, Rat. Host: Rabbit. Required for processing of pre-rRNA and maturation of 40S ribosomal subunits. |
| **Other Notes** | Small volumes of anti-RPS24 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RPS24. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 4506703 |
| **NCBI GeneID** | 6229 |
| **NCBI Accession #** | NP_001017.1 |
| **UniProt Primary Accession #** | P62847 |
| **UniProt Related Accession #** | P62847 |

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| **GenBank Nucleotide #** | NP_001017.1 |
| **NCBI Official Full Name** | 40S ribosomal protein S24 isoform c |
| **NCBI Official Synonym Full Names** | ribosomal protein S24 |
| **NCBI Official Symbol** | RPS24 |
| **NCBI Official Synonym Symbols** | S24; DBA3; eS24 |
| **UniProt Protein Name** | 40S ribosomal protein S24 |
| **Protein Family** | 40S ribosomal protein |
| **UniProt Gene Name** | RPS24 |
| **UniProt Entry Name** | RS24_HUMAN |
| **NCBI Protein Information** | 40S ribosomal protein S24 |
| **NCBI Summary for RPS24** | Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes a ribosomal protein that is a component of the 40S subunit. The protein belongs to the S24E family of ribosomal proteins. It is located in the cytoplasm. Multiple transcript variants encoding different isoforms have been found for this gene. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome. Mutations in this gene result in Diamond-Blackfan anemia. [provided by RefSeq, Nov 2008] |
| **UniProt Comments for RPS24** | RPS24: Required for processing of pre-rRNA and maturation of 40S ribosomal subunits. Defects in RPS24 are the cause of Diamond-Blackfan anemia type 3 (DBA3). DBA3 is a form of Diamond-Blackfan anemia, a congenital non-regenerative hypoplastic anemia that usually presents early in infancy. Diamond-Blackfan anemia is characterized by a moderate to severe macrocytic anemia, erythroblastopenia, and an increased risk of malignancy. 30 to 40% of Diamond-Blackfan anemia patients present with short stature and congenital anomalies, the most frequent being craniofacial (Pierre-Robin syndrome and cleft palate), thumb and urogenital anomalies. Belongs to the ribosomal protein S24e family. 3 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: RNA-binding; Translation; Ribosomal<br><br>Chromosomal Location of Human Ortholog: 10q22<br><br>Cellular Component: small ribosomal subunit; membrane; cytoplasm; nucleolus; nucleus; cytosol<br><br>Molecular Function: structural constituent of ribosome; translation initiation factor binding; nucleotide binding<br><br>Biological Process: SRP-dependent cotranslational protein targeting to membrane; viral reproduction; translation; viral infectious cycle; translational termination; ribosomal small subunit biogenesis and assembly; erythrocyte homeostasis; maturation of SSU-rRNA from tricistronic rRNA transcript (SSU-rRNA, 5.8S rRNA, LSU-rRNA); cellular protein metabolic process; translational elongation; translational initiation; mRNA catabolic process, nonsense-mediated decay; gene expression; viral transcription; rRNA processing<br><br>Disease: Diamond-blackfan Anemia 3 |
| **Research Articles on RPS24** | **1.** The results show that RPS19, RPS21 or RPS24 are upregulated in malignant tissue and may serve as putative biomarkers for prostate cancer. |
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