RPS24 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RPS24, Polyclonal Antibody
Full Product Name	RPS24, ID (RPS24, 40S ribosomal protein S24) (MaxLight 650)
Product Gene Name	anti-RPS24 antibody
Product Synonym Names	RPS24; 40S ribosomal protein S24
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	32,431 Da
OMIM	602412
3D Structure	ModBase 3D Structure for P62847
Immunogen	RPS24 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 72~101 amino acids from the Central region of human RPS24.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-RPS24 antibody	Antibodies; Ribosomal Proteins
Applications Tested/Suitable for anti-RPS24 antibody	Flow Cytometry (FC/FACS), FLISA, Western Blot (WB)
Application Notes for anti-RPS24 antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-RPS24 antibody	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. RPS24 is 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.
Product References and Citations for anti-RPS24 antibody	Quarello, P., et al. Haematologica 95(2):206-213(2010). Badhai, J., et al. Biochim. Biophys. Acta 1792(10):1036-1042(2009). Robledo, S., et al. RNA 14(9):1918-1929(2008).

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.
Searchable Terms for RPS24 purchase	MBS6343828 is an antibody targeting RPS24. Also known as RPS24, ID (RPS24, 40S ribosomal protein S24) (MaxLight 650). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	4506703
NCBI GeneID	6229
NCBI Accession #	NP_001017.1
UniProt Primary Accession #	P62847
UniProt Secondary Accession #	P16632; Q5T0P7; Q5T0P8; Q7Z3D1; E7EPK6
UniProt Related Accession #	P62847
GenBank Nucleotide #	NM_001026.4
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
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. Protein type: RNA-binding; Translation; Ribosomal Chromosomal Location of Human Ortholog: 10q22 Cellular Component: small ribosomal subunit; membrane; cytoplasm; nucleolus; nucleus; cytosol Molecular Function: structural constituent of ribosome; translation initiation factor binding; nucleotide binding 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 Disease: Diamond-blackfan Anemia 3
Research Articles on RPS24	**1.** Observational study of gene-disease association. (HuGE Navigator)
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