RPS12 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RPS12, Polyclonal Antibody
Full Product Name	RPS12, NT (RPS12, 40S ribosomal protein S12) (MaxLight 650)
Product Gene Name	anti-RPS12 antibody
Product Synonym Names	RPS12; 40S ribosomal protein S12
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
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	14,515 Da
Chromosome Location	Chromosome: 6; NC_000006.11 (133135708..133138703). Location: 6q23.2
OMIM	603660
3D Structure	ModBase 3D Structure for P25398
Immunogen	RPS12 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 14-44 amino acids from the N-terminal region of human RPS12.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-RPS12 antibody	Antibodies; Ribosomal Proteins
Applications Tested/Suitable for anti-RPS12 antibody	Western Blot (WB), FLISA
Application Notes for anti-RPS12 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-RPS12 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. This gene encodes a ribosomal protein that is a component of the 40S subunit. The protein belongs to the S12E family of ribosomal proteins. It is located in the cytoplasm. Increased expression of this gene in colorectal cancers compared to matched normal colonic mucosa has been observed. 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-RPS12 antibody	Yu, Y., et al. Protein Sci. 14(6):1438-1446(2005). Andersen, J.S., et al. Nature 433(7021):77-83(2005). Kapp, L.D., et al. Annu. Rev. Biochem. 73, 657-704 (2004): Sampath, P., et al. Mol. Cell. Biol. 23(5):1509-1519(2003). Yoshihama, M., et al. Genome Res. 12(3):379-390(2002).

Other Notes	Small volumes of anti-RPS12 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 RPS12 purchase	MBS6343718 is an antibody targeting RPS12. Also known as RPS12, NT (RPS12, 40S ribosomal protein S12) (MaxLight 650). Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RPS12. It may not necessarily be applicable to this product.

NCBI GI #	14277700
NCBI GeneID	6206
NCBI Accession #	NP_001007.2
UniProt Primary Accession #	P25398
UniProt Secondary Accession #	Q76M58
UniProt Related Accession #	P25398
GenBank Nucleotide #	NM_001016.3
NCBI Official Full Name	40S ribosomal protein S12
NCBI Official Synonym Full Names	ribosomal protein S12
NCBI Official Symbol	RPS12
NCBI Official Synonym Symbols	S12
UniProt Protein Name	40S ribosomal protein S12
Protein Family	40S ribosomal protein
UniProt Gene Name	RPS12
UniProt Entry Name	RS12_HUMAN
NCBI Protein Information	40S ribosomal protein S12
UniProt Comments for RPS12	RPS12: a ribosomal protein that is a component of the 40S subunit. The protein belongs to the S12E family of ribosomal proteins. It is located in the cytoplasm. Increased expression of this gene in colorectal cancers compared to matched normal colonic mucosa has been observed. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome. [provided by RefSeq, Jul 2008] Protein type: Translation Chromosomal Location of Human Ortholog: 6q23.2 Cellular Component: membrane; cytosol Molecular Function: structural constituent of ribosome Biological Process: SRP-dependent cotranslational protein targeting to membrane; cellular protein metabolic process; translational elongation; viral reproduction; translation; translational initiation; mRNA catabolic process, nonsense-mediated decay; gene expression; viral transcription; viral infectious cycle; translational termination
Research Articles on RPS12	**1.** may be early molecular diagnostic marker for cervical squamous cell carcinoma
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