RPL10 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	RPL10, Monoclonal Antibody
Full Product Name	RPL10 (Ribosomal Protein L10, DKFZp686J1851, DXS648, DXS648E, FLJ23544, FLJ27072, NOV, QM) (AP)
Product Gene Name	anti-RPL10 antibody
Product Synonym Names	Ribosomal Protein L10; DKFZp686J1851; DXS648; DXS648E; FLJ23544; FLJ27072; NOV; QM
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	2C4
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified
Specificity	Recognizes RPL10.
Preparation and Storage	Store product at 4 degree C. 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. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	24kDa
OMIM	300847
3D Structure	ModBase 3D Structure for P27635
Immunogen	RPL10 (NP_006004, 1aa-100aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MGRRPARCYRYCKNKPYPKSRFCRGVPDAKIRIFDLGRKKAKVDEFPLCGHMVSDEYEQLSSEALEAARICANKYMVKSCGKDGFHIRVRLHPFHVIRIN
Conjugate	AP
Product Categories/Family for anti-RPL10 antibody	Antibodies; Ribosomal Proteins
Applications Tested/Suitable for anti-RPL10 antibody	ELISA (EIA)
Application Notes for anti-RPL10 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-RPL10 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 60S subunit. The protein belongs to the L10E family of ribosomal proteins. It is located in the cytoplasm. In vitro studies have shown that the chicken protein can bind to c-Jun and can repress c-Jun-mediated transcriptional activation, but these activities have not been demonstrated in vivo. This gene was initially identified as a candidate for a Wilms tumor suppressor gene, but later studies determined that this gene is not involved in the suppression of Wilms tumor. This gene has been referred to as 'laminin receptor homolog' because a chimeric transcript consisting of sequence from this gene and sequence from the laminin receptor gene was isolated; however, it is not believed that this gene encodes a laminin receptor. Transcript variants utilizing alternative polyA signals exist. The variant with the longest 3' UTR overlaps the deoxyribonuclease I-like 1 gene on the opposite strand. This gene is co-transcribed with the small nucleolar RNA gene U70, which is located in its fifth intron. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome. [provided by RefSeq]
Other Notes	Small volumes of anti-RPL10 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 RPL10 purchase	MBS6164096 is an antibody targeting RPL10. Also known as RPL10 (Ribosomal Protein L10, DKFZp686J1851, DXS648, DXS648E, FLJ23544, FLJ27072, NOV, QM) (AP). Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RPL10. It may not necessarily be applicable to this product.

NCBI GI #	746817424
NCBI GeneID	6134
NCBI Accession #	NP_006004
UniProt Primary Accession #	P27635
UniProt Related Accession #	P27635
GenBank Nucleotide #	NM_006013
NCBI Official Full Name	60S ribosomal protein L10 isoform a
NCBI Official Synonym Full Names	ribosomal protein L10
NCBI Official Symbol	RPL10
NCBI Official Synonym Symbols	QM; L10; NOV; AUTSX5; DXS648; MRXS35; DXS648E
UniProt Protein Name	60S ribosomal protein L10
UniProt Synonym Protein Names	Laminin receptor homolog; Protein QM; Tumor suppressor QM
Protein Family	60S ribosomal protein
UniProt Gene Name	RPL10
UniProt Synonym Gene Names	DXS648E; QM
UniProt Entry Name	RL10_HUMAN
NCBI Protein Information	60S ribosomal protein L10
NCBI Summary for RPL10	This gene encodes a ribosomal protein that is a component of the 60S ribosome subunit. The related protein in chicken can bind to c-Jun and can repress c-Jun-mediated transcriptional activation. Some studies have detected an association between variation in this gene and autism spectrum disorders, though others do not detect this relationship. There are multiple pseudogenes of this gene dispersed throughout the genome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2015]

UniProt Comments for RPL10	RPL10: Defects in RPL10 are a cause of susceptibility to autism X-linked type 5 (AUTSX5). A complex multifactorial, pervasive developmental disorder characterized by impairments in reciprocal social interaction and communication, restricted and stereotyped patterns of interests and activities, and the presence of developmental abnormalities by 3 years of age. Most individuals with autism also manifest moderate mental retardation. RPL10 is involved in autism only in rare cases. Two hypomorphic variants affecting the translation process have been found in families with autism spectrum disorders, suggesting that aberrant translation may play a role in disease mechanisms. Belongs to the ribosomal protein L10e family. Protein type: Translation; Ribosomal Chromosomal Location of Human Ortholog: Xq28 Cellular Component: membrane; endoplasmic reticulum; cytosol Molecular Function: protein binding; structural constituent of ribosome Biological Process: SRP-dependent cotranslational protein targeting to membrane; cellular protein metabolic process; translational elongation; viral reproduction; translation; mRNA catabolic process, nonsense-mediated decay; translational initiation; gene expression; viral transcription; viral infectious cycle; translational termination Disease: Autism, Susceptibility To, X-linked 5
Research Articles on RPL10	**1.** The regulation of reactive oxygen species level by mitochondrial RPL10 is one of the major extra-ribosomal functions in pancreatic cancer cells, which could be used as an indicator for the tumorigenesis of pancreatic cancer.
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