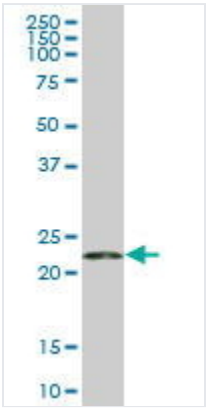
RPS5 Antibody – Mouse Monoclonal

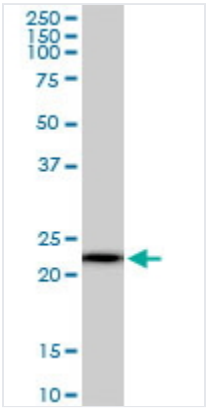
PRODUCT OVERVIEW

Product Name	RPS5, Monoclonal Antibody
Full Product Name	RPS5 (Ribosomal Protein S5) (Biotin)
Product Gene Name	anti-RPS5 antibody
Product Synonym Names	Ribosomal Protein S5
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	3G3
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified
Specificity	Recognizes RPS5.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. 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 after thawing and prior to removing the cap.
Molecular Weight	25.3 Da (227aa) confirmed by MALDI-TOF
OMIM	603630
3D Structure	ModBase 3D Structure for P46782
Immunogen	RPS5 (NP_001000, 106aa-204aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	ENPLQVLVNAIINSGPREDSTRIGRAGTVRRQAVDVSPLRRVNQAIWLLCTGAREAAFRNIKTIAECLADELINAAKGSSNSYAIKKKDELERVAKSNR
Conjugate	Biotin
Product Categories/Family for anti-RPS5 antibody	Antibodies; Ribosomal Proteins
Applications Tested/Suitable for anti-RPS5 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-RPS5 antibody	Applications are based on unconjugated antibody.

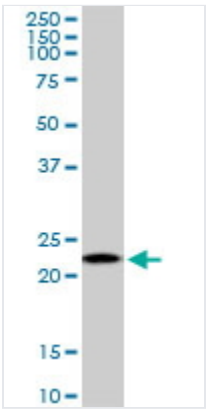
Related Product Information for anti-RPS5 antibody	Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes a ribosomal protein that is a component of the 40S subunit. The protein belongs to the S7P family of ribosomal proteins. It is located in the cytoplasm. Variable expression of this gene in colorectal cancers compared to adjacent normal tissues has been observed, although no correlation between the level of expression and the severity of the disease has been found. 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-RPS5 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 RPS5 purchase	MBS6172583 is an antibody targeting RPS5. Also known as RPS5 (Ribosomal Protein S5) (Biotin). Host: Mouse.



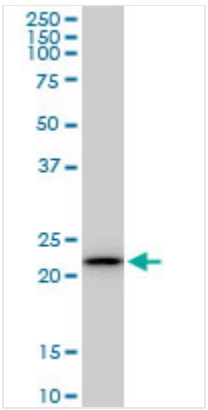
Western Blot (WB) of anti-RPS5 antibody
RPS5 monoclonal antibody (M01), clone 3G3. Western Blot analysis of RPS5 expression in HeLa (Cat # L013V1).



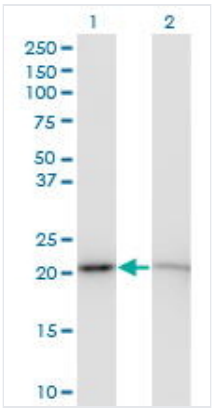
Western Blot (WB) of anti-RPS5 antibody
RPS5 monoclonal antibody (M01), clone 3G3. Western Blot analysis of RPS5 expression in NIH/3T3.



Western Blot (WB) of anti-RPS5 antibody
RPS5 monoclonal antibody (M01), clone 3G3. Western Blot analysis of RPS5 expression in PC-12.



Western Blot (WB) of anti-RPS5 antibody
RPS5 monoclonal antibody (M01), clone 3G3. Western Blot analysis of RPS5 expression in Raw 264.7.



Western Blot (WB) of anti-RPS5 antibody
Western Blot analysis of RPS5 expression in transfected 293T cell line by RPS5 monoclonal antibody (M01), clone 3G3.Lane 1: RPS5 transfected lysate (22.9 KDa).Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RPS5. It may not necessarily be applicable to this product.

NCBI GI #	13904870
NCBI GeneID	6193
NCBI Accession #	NP_001000
UniProt Primary Accession #	P46782
UniProt Secondary Accession #	Q96BN0; B2R4T2
UniProt Related Accession #	P46782
GenBank Nucleotide #	NM_001009.3
NCBI Official Full Name	40S ribosomal protein S5
NCBI Official Synonym Full Names	ribosomal protein S5
NCBI Official Symbol	RPS5
NCBI Official Synonym Symbols	S5
UniProt Protein Name	40S ribosomal protein S5
Protein Family	30S ribosomal protein
UniProt Gene Name	RPS5
UniProt Entry Name	RS5_HUMAN
NCBI Protein Information	40S ribosomal protein S5

UniProt Comments for RPS5	RPS5: a ribosomal protein that is a component of the 40S subunit. The protein belongs to the S7P family of ribosomal proteins. It is located in the cytoplasm. Variable expression of this gene in colorectal cancers compared to adjacent normal tissues has been observed, although no correlation between the level of expression and the severity of the disease has been found. 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: RNA-binding; Ribosomal; Translation Chromosomal Location of Human Ortholog: 19q13.4 Cellular Component: focal adhesion; membrane; ribonucleoprotein complex; cytosol Molecular Function: mRNA binding; structural constituent of ribosome; RNA binding Biological Process: SRP-dependent cotranslational protein targeting to membrane; cellular protein metabolic process; translational elongation; translation; viral reproduction; regulation of translational fidelity; translational initiation; mRNA catabolic process, nonsense-mediated decay; viral transcription; gene expression; translational termination; viral infectious cycle
Research Articles on RPS5	**1.** Data indicate that beta hairpin structure present in ribosomal protein S5 (RPS5) is important for IRES-RPS5 interaction.
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