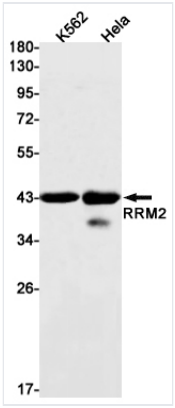
RRM2 Antibody – Rabbit Monoclonal

PRODUCT OVERVIEW

Product Name	RRM2, Monoclonal Antibody
Full Product Name	RRM2 Rabbit mAb
Product Gene Name	anti-RRM2 antibody
Product Synonym Names	R2; RR2; RR2M
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	S09-4G8
Host	Recombinant Rabbit
Species Reactivity	Human
Form/Format	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Purity/Purification	Affinity Purified
Concentration	0.3mg/ml (lot specific)
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	51,093 Da
OMIM	180390
3D Structure	ModBase 3D Structure for P31350
Immunogen	Recombinant protein of human RRM2
Conjugation	Unconjugated
Modification	Unmodification
Product Categories/Family for anti-RRM2 antibody	Primary Antibody
Applications Tested/Suitable for anti-RRM2 antibody	Western Blot (WB)
Application Notes for anti-RRM2 antibody	WB: 1/1000
Related Product Information for anti-RRM2 antibody	Provides the precursors necessary for DNA synthesis. Catalyzes the biosynthesis of deoxyribonucleotides from the corresponding ribonucleotides. Inhibits Wnt signaling.MiscellaneousTwo distinct regulatory sites have been defined: the specificity site, which controls substrate specificity, and the activity site which regulates overall catalytic activity. A substrate-binding catalytic site, located on M1, is formed only in the presence of the second subunit M2.
Other Notes	Small volumes of anti-RRM2 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 RRM2 purchase	MBS9467274 is an antibody targeting RRM2. Also known as RRM2 Rabbit mAb. Reactive in Human. Host: Recombinant Rabbit.



Western Blot (WB) of anti-RRM2 antibody
Western blot detection of RRM2 in K562,Hela cell lysates using RRM2 Rabbit mAb(1:1000 diluted).Predicted band size:45kDa.Observed band size:45kDa.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RRM2. It may not necessarily be applicable to this product.

NCBI GI #	4557845
NCBI GeneID	6241
NCBI Accession #	NP_001025.1
UniProt Primary Accession #	P31350
UniProt Secondary Accession #	Q5WRU7; B2R9B5; J3KP43
UniProt Related Accession #	P31350
GenBank Nucleotide #	NM_001034.3
NCBI Official Full Name	ribonucleoside-diphosphate reductase subunit M2 isoform 2
NCBI Official Synonym Full Names	ribonucleotide reductase M2
NCBI Official Symbol	RRM2
NCBI Official Synonym Symbols	R2; RR2; RR2M
UniProt Protein Name	Ribonucleoside-diphosphate reductase subunit M2
UniProt Synonym Protein Names	Ribonucleotide reductase small chain; Ribonucleotide reductase small subunit
Protein Family	Ribonucleoside-diphosphate reductase
UniProt Gene Name	RRM2
UniProt Synonym Gene Names	RR2
UniProt Entry Name	RIR2_HUMAN
NCBI Protein Information	ribonucleoside-diphosphate reductase subunit M2; ribonucleotide reductase M2 polypeptide; ribonucleotide reductase small chain; ribonucleotide reductase small subunit
NCBI Summary for RRM2	This gene encodes one of two non-identical subunits for ribonucleotide reductase. This reductase catalyzes the formation of deoxyribonucleotides from ribonucleotides. Synthesis of the encoded protein (M2) is regulated in a cell-cycle dependent fashion. Transcription from this gene can initiate from alternative promoters, which results in two isoforms that differ in the lengths of their N-termini. Related pseudogenes have been identified on chromosomes 1 and X. [provided by RefSeq, Sep 2009]

UniProt Comments for RRM2	RRM2: Provides the precursors necessary for DNA synthesis. Catalyzes the biosynthesis of deoxyribonucleotides from the corresponding ribonucleotides. Inhibits Wnt signaling. Belongs to the ribonucleoside diphosphate reductase small chain family. Protein type: Nucleotide Metabolism - purine; Oxidoreductase; EC 1.17.4.1; Nucleotide Metabolism - pyrimidine; Other Amino Acids Metabolism - glutathione Chromosomal Location of Human Ortholog: 2p25-p24 Cellular Component: nucleoplasm; cytoplasm; nucleus; cytosol Molecular Function: protein binding; metal ion binding; ribonucleoside-diphosphate reductase activity Biological Process: G1/S-specific transcription in mitotic cell cycle; deoxyribonucleoside diphosphate metabolic process; nucleobase, nucleoside and nucleotide metabolic process; nucleobase, nucleoside and nucleotide interconversion; deoxyribonucleotide biosynthetic process; protein heterotetramerization; mitotic cell cycle; DNA replication; G1/S transition of mitotic cell cycle
Research Articles on RRM2	**1.** RRM2 is a new molecular marker for the diagnosis and clinical outcomes of cervical cancer. It is involved in cervical carcinogenesis and predicts poor survival.
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