

Rabbit RRM2B Polyclonal Antibody | anti-RRM2B antibody

RRM2B Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325445	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

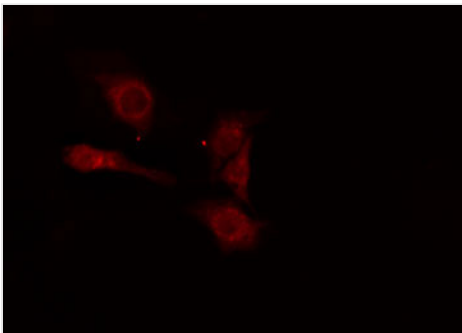
PRODUCT SYNONYMS

RRM2B; Polyclonal Antibody; RRM2B Antibody; DKFZp686M05248; MGC102856; MGC42116; MTDPS8A; MTDPS8B; p53 inducible ribonucleotide reductase small subunit 2 homolog; p53 inducible ribonucleotide reductase small subunit 2 like protein; P53 inducible ribonucleotide reductase small subunit 2 short form beta; p53 R2; p53-inducible ribonucleotide reductase small subunit 2-like protein; p53R2; Ribonucleoside diphosphate reductase M2 subunit B; Ribonucleoside-diphosphate reductase subunit M2 B; Ribonucleotide reductase M2 B (TP53 inducible); Ribonucleotide reductase M2 B; Ribonucleotide reductase small subunit like 2 p53 inducible; RIR2B_HUMAN; RRM 2B; TP53 inducible ribonucleotide reductase M2 B; TP53-inducible ribonucleotide reductase M2 B; anti-RRM2B antibody

PRODUCT SPECIFICATIONS

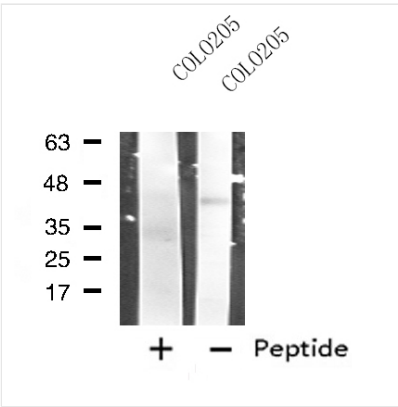
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	RRM2B antibody detects endogenous levels of total RRM2B
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	423
Applicable Applications for anti-RRM2B antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cytoplasm. Nucleus. Translocates from cytoplasm to nucleus in response to DNA damage.
Tissue Specificity	Widely expressed at a high level in skeletal muscle and at a weak level in thymus. Expressed in epithelial dysplasias and squamous cell carcinoma.
Predicted Cross Reactivity	Bovine, Sheep, Dog
Similarity	Bovine (100%), Sheep (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA325445 staining COLO205 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from COLO205 cells, using RRM2B antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-RRM2B antibody

Function: Plays a pivotal role in cell survival by repairing damaged DNA in a p53/TP53-dependent manner. Supplies deoxyribonucleotides for DNA repair in cells arrested at G1 or G2. Contains an iron-tyrosyl free radical center required for catalysis. Forms an active ribonucleotide reductase (RNR) complex with RRM1 which is expressed both in resting and proliferating cells in response to DNA damage.

Subunit Structure: Heterotetramer with large (RRM1) subunit. Interacts with p53/TP53. Interacts with RRM1 in response to DNA damage.

Similarity: Belongs to the ribonucleoside diphosphate reductase small chain family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	289177074
NCBI GeneID	50484
NCBI Accession #	NP_001165948.1
NCBI GenBank Nucleotide #	NM_001172477.1
UniProt Accession #	Q7LG56; Q17R22; Q75PQ6; Q75PQ7; Q75PY8; Q75PY9; Q86YE3; Q9NPD6; Q9NTD8; Q9NUW3; B4E2N4
Molecular Weight	Observed: 40 kD Predicted: 41 kDa
NCBI Official Full Name	ribonucleoside-diphosphate reductase subunit M2 B isoform 2
NCBI Official Synonym Full Names	ribonucleotide reductase regulatory TP53 inducible subunit M2B
NCBI Official Symbol	RRM2B
NCBI Official Synonym Symbols	P53R2; MTDPS8A; MTDPS8B
NCBI Protein Information	ribonucleoside-diphosphate reductase subunit M2 B
UniProt Protein Name	Ribonucleoside-diphosphate reductase subunit M2 B
UniProt Gene Name	RRM2B
UniProt Synonym Gene Names	P53R2; p53R2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.