

Human Ribonucleoside-Diphosphate Reductase Subunit M2 B, RRM2B ELISA Kit | RRM2B elisa kit

Human Ribonucleoside-Diphosphate Reductase Subunit M2 B, RRM2B Primacu ELISA Kit

CATALOG #
AAA124216

REACTIVITY
Human

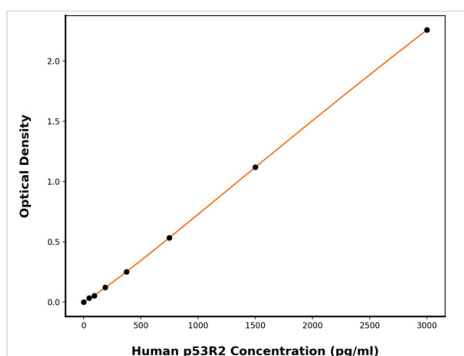
PRODUCT SYNONYMS

Ribonucleoside-Diphosphate Reductase Subunit M2 B; RRM2B; Human Ribonucleoside-Diphosphate Reductase Subunit M2 B; RRM2B Primacu ELISA Kit; Ribonucleoside-diphosphate reductase subunit M2 B; p53R2; P53R2; RRM2B elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernates
Detection Range	46.88-3000pg/mL
Sensitivity	14.93pg/mL
Standard Solution	30ng/mL
Assay Time	3.5h
Preparation and Storage	Store at 2-8 degree C

IMAGES



Standard Curve (Sample)

Typical Testing Data/Standard Curve (for reference only)

ADDITIONAL INFORMATION

Related Product Information for RRM2B elisa kit	Ribonucleoside reductase subunit M2B, also known as RRM2B or p53R2, is an enzyme belonging to the iron-dependent ribonucleotide reductase (RNR) enzyme family which is essential for DNA synthesis. Ribonucleotide reductase (RNR) is an enzyme that catalyzes the formation of deoxyribonucleotides from ribonucleotides and plays a critical role in regulating the total rate of DNA synthesis so that DNA to cell mass is maintained at a constant ratio during cell division and DNA repair. RRM2B is a phosphorylated protein. It is hypothesized that RRM2B activity can be regulated at the posttranslational level in response to DNA damage. RRM2B has previously been shown to be essential for the maintenance of mtDNA copy number and its candidacy for tumor suppression has been evaluated in several mutational analyses of different cancer types. However, the contribution of RRM2B to the DNA damage response has been questioned because its transcriptional induction upon DNA damage is not rapid enough for prompt DNA repair. Instead, ATM-mediated phosphorylation has been suggested to regulate the DNA repair activity of RRM2B posttranslationally. Besides, a defect in RRM2B can induce a mild muscle disease of adult onset through disturbance of mitochondrial homeostasis but that this defect does not appear to be oncogenic.
Product Categories/Family for RRM2B elisa kit	Primacu ELISA Kit; Cancer; Epigenetics and nuclear signaling; Metabolism

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
Molecular Weight	40,737 Da
NCBI Official Full Name	ribonucleoside-diphosphate reductase subunit M2 B isoform 2
NCBI Official Synonym Full Names	ribonucleotide reductase M2 B (TP53 inducible)
NCBI Official Symbol	RRM2B
NCBI Official Synonym Symbols	P53R2; MTDPS8A; MTDPS8B
NCBI Protein Information	ribonucleoside-diphosphate reductase subunit M2 B; TP53-inducible ribonucleotide reductase M2 B; p53-inducible ribonucleotide reductase small subunit 2 homolog; p53-inducible ribonucleotide reductase small subunit 2-like protein; p53-inducible ribonucleot
UniProt Protein Name	Ribonucleoside-diphosphate reductase subunit M2 B
UniProt Gene Name	RRM2B
UniProt Synonym Gene Names	P53R2; p53R2
UniProt Entry Name	RIR2B_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/ribonucleoside-diphosphate-reductase-subunit-m2-b-rrm2b/124216>