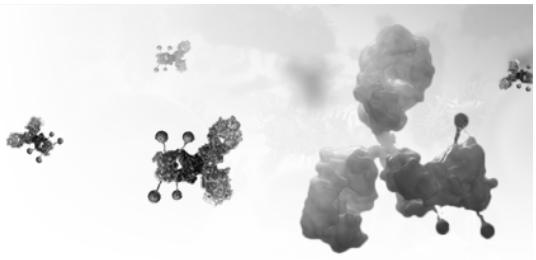

Human RRM2B peptide (DAG-P1015)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	This gene encodes the small subunit of a p53-inducible ribonucleotide reductase. This heterotetrameric enzyme catalyzes the conversion of ribonucleoside diphosphates to deoxyribonucleoside diphosphates. The product of this reaction is necessary for DNA synthesis. Mutations in this gene have been associated with autosomal recessive mitochondrial DNA depletion syndrome, autosomal dominant progressive external ophthalmoplegia-5, and mitochondrial neurogastrointestinal encephalopathy. Alternatively spliced transcript variants have been described.[provided by RefSeq, Feb 2010]
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.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the ribonucleoside diphosphate reductase small chain family.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	RRM2B ribonucleotide reductase M2 B (TP53 inducible) [Homo sapiens (human)]
Official Symbol	RRM2B
Synonyms	RRM2B; ribonucleotide reductase M2 B (TP53 inducible); P53R2; MTDPS8A; MTDPS8B;

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	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 ribonucleotide reductase small subunit 2 short form beta;
Entrez Gene ID	50484
mRNA Refseq	NM_001172477.1
Protein Refseq	NP_001165948.1
UniProt ID	Q7LG56
Chromosome Location	8q23.1
Pathway	DNA damage response, organism-specific biosystem; Direct p53 effectors, organism-specific biosystem; Glutathione metabolism, organism-specific biosystem; Glutathione metabolism, conserved biosystem; Metabolism, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem; Nucleotide Metabolism, organism-specific biosystem; Purine metabolism, organism-specific biosystem; Purine metabolism, conserved biosystem; Pyrimidine metabolism, organism-specific biosystem; Pyrimidine m
Function	metal ion binding; ribonucleoside-diphosphate reductase activity, thioredoxin disulfide as acceptor;

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