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RRM2B Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17054c

Specification

RRM2B Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	Q7LG56
Other Accession	Q6PEE3, Q4R741, NP_001165948.1, NP_001165949.1
Reactivity	**Human**
Predicted	**Monkey, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**40737**
Antigen Region	**128-157**

RRM2B Antibody (Center) - Additional Information

Gene ID 50484

Other Names
Ribonucleoside-diphosphate reductase subunit M2 B, TP53-inducible ribonucleotide reductase M2 B, p53-inducible ribonucleotide reductase small subunit 2-like protein, p53R2, RRM2B, P53R2

Target/Specificity
This RRM2B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 128-157 amino acids from the Central region of human RRM2B.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
RRM2B Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

RRM2B Antibody (Center) - Protein Information

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Name RRM2B

Synonyms P53R2

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.

Cellular Location
Cytoplasm. Nucleus. Note=Translocates from cytoplasm to nucleus in response to DNA damage

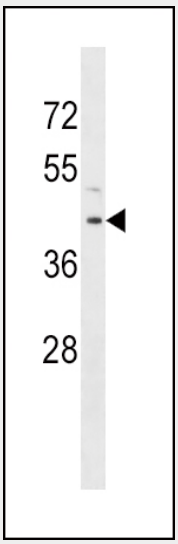
Tissue Location
Widely expressed at a high level in skeletal muscle and at a weak level in thymus. Expressed in epithelial dysplasias and squamous cell carcinoma.

RRM2B Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

RRM2B Antibody (Center) - Images



RRM2B Antibody (Center) (Cat. #AP17054c) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the RRM2B antibody detected the RRM2B protein (arrow).

RRM2B Antibody (Center) - Background

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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.

RRM2B Antibody (Center) - References

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Tyynismaa, H., et al. Am. J. Hum. Genet. 85(2):290-295(2009)
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