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# p53R2 Polyclonal Antibody

Catalog # AP71726

## Product Information

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|---|---|
| **Application** | WB, E |
| **Primary Accession** | Q7LG56 |
| **Reactivity** | Human, Mouse, Rat |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 40737 |

## Additional Information

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|---|---|
| **Gene ID** | 50484 |
| **Other Names** | RRM2B; P53R2; Ribonucleoside-diphosphate reductase subunit M2 B; TP53-inducible ribonucleotide reductase M2 B; p53-inducible ribonucleotide reductase small subunit 2-like protein; p53R2 |
| **Dilution** | WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications. E~~N/A |
| **Format** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide. |
| **Storage Conditions** | -20℃ |

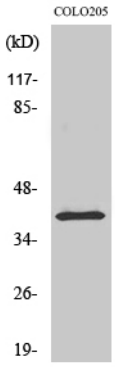
## Protein Information

| | |
|---|---|
| **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. |

## Background

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.

## Images




Western Blot analysis of various cells using p53R2 Polyclonal Antibody diluted at 1：2000

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.