

**p53R2 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody**  
**Catalog # ABV11525**

## Specification

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### p53R2 Polyclonal Antibody - Product Information

Application	WB
Primary Accession	<a href="#">Q7LG56</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	40737

### p53R2 Polyclonal Antibody - Additional Information

**Gene ID** 50484

#### Other Names

Ribonucleoside-diphosphate reductase subunit M2 B, 1.17.4.1, TP53-inducible ribonucleotide reductase M2 B, p53-inducible ribonucleotide reductase small subunit 2-like protein, p53R2, RRM2B, P53R2

#### Target/Specificity

p53R2

#### Formulation

100 µg (0.5 mg/ml) immunoaffinity purified rabbit anti-p53R2 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA, 0.02% sodium azide.

#### Handling

The antibody solution should be gently mixed before use.

#### Background Descriptions

#### Precautions

p53R2 Polyclonal Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### p53R2 Polyclonal Antibody - 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.

**p53R2 Polyclonal Antibody - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**p53R2 Polyclonal Antibody - Images****p53R2 Polyclonal Antibody - Background**

p53R2 is a p53 inducible gene that contains a p53 binding sequence and encodes a subunit of the enzyme ribonucleotide reductase. p53R2 is induced by reagents (e.g., ultraviolet and g-irradiation) that can cause DNA damages and then functions in the p53 checkpoint for repair of damaged DNA. The isoform of the p53 family member p73 also induces p53R2 expression.