

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

p53R2 Polyclonal Antibody - Product Information

Application	WB
Primary Accession	Q7LG56
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.