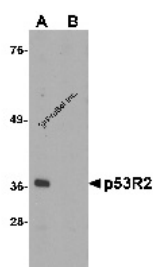


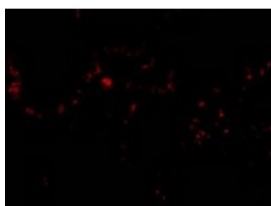


## p53R2 Antibody

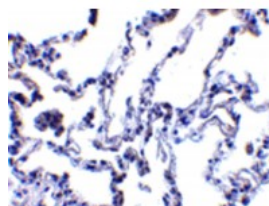
CATALOG NUMBER: 2383



Western blot analysis of p53R2 in 3T3 cell lysate with p53R2 antibody at 1 ug/mL in (A) the absence and (B) the presence of blocking peptide.



Immunofluorescence of p53R2 in Human Lung tissue with p53R2 antibody at 20 ug/mL.



Immunohistochemistry of p53R2 in human lung tissue with p53R2 antibody at 1 ug/mL.

### Specifications

<b>SPECIES REACTIVITY:</b>	Human, Mouse, Rat
<b>TESTED APPLICATIONS:</b>	ELISA, IF, IHC-P, WB
<b>APPLICATIONS:</b>	p53R2 antibody can be used for detection of p53R2 by Western blot at 1 ug/mL. Antibody can also be used for immunohistochemistry starting at 1 ug/mL. For immunofluorescence start at 20 ug/mL.
<b>USER NOTE:</b>	Optimal dilutions for each application to be determined by the researcher.
<b>POSITIVE CONTROL:</b>	1) Cat. No. 1202 - A431 Cell Lysate 2) Cat. No. 1212 - 3T3 Cell Lysate 3) Cat. No. 1302 - Human Lung Tissue Lysate
<b>PREDICTED MOLECULAR WEIGHT:</b>	Predicted: 39 kDa Observed: 43 kDa
<b>SPECIFICITY:</b>	At least three isoforms of p53R2 are known to exist; this antibody will detect only the two smaller isoforms.
<b>IMMUNOGEN:</b>	p53R2 antibody was raised against a 16 amino acid peptide near the amino terminus of human p53R2.  The immunogen is located within the first 50 amino acids of p53R2.
<b>HOST SPECIES:</b>	Rabbit

### Properties

<b>PURIFICATION:</b>	p53R2 Antibody is affinity chromatography purified via peptide column.
<b>PHYSICAL STATE:</b>	Liquid
<b>BUFFER:</b>	p53R2 Antibody is supplied in PBS containing 0.02% sodium azide.
<b>CONCENTRATION:</b>	1 mg/mL
<b>STORAGE CONDITIONS:</b>	p53R2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
<b>CLONALITY:</b>	Polyclonal

<b>ISOTYPE:</b>	IgG
<b>CONJUGATE:</b>	Unconjugated

#### Additional Info

<b>ALTERNATE NAMES:</b>	p53R2 Antibody: P53R2, MTDP58A, MTDP58B, P53R2, Ribonucleoside-diphosphate reductase subunit M2 B, TP53-inducible ribonucleotide reductase M2 B, p53R2
<b>ACCESSION NO.:</b>	BAA92434
<b>PROTEIN GI NO.:</b>	7229086
<b>OFFICIAL SYMBOL:</b>	RRM2B
<b>GENE ID:</b>	50484

#### Background

<b>BACKGROUND:</b>	p53R2 Antibody: The p53 tumor-suppressor gene integrates numerous signals that control cell life and death. Several novel molecules involved in p53 signaling, including p53R2, Chk2, p53AIP1, Noxa, PIDD, and PID/MTA2, were recently discovered. 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 the reagents, ultraviolet and gamma-irradiation that cause DNA damages. The product of p53R2 gene is directly involved in the p53 checkpoint for repair of damaged DNA. The isoform of the p53 family member p73 also induces p53R2 expression. p53R2 is an important target of p53 for tumor suppression.
<b>REFERENCES:</b>	<p>1) Tanaka H, Arakawa H, Yamaguchi T, et al. A ribonucleotide reductase gene involved in a p53-dependent cell-cycle checkpoint for DNA damage. <i>Nature</i> 2000; 404:42-9.</p> <p>2) Matsuoka S, Huang M, and Elledge SJ. Linkage of ATM to cell cycle regulation by the Chk2 protein kinase. <i>Science</i> 1998;282:1893-7.</p> <p>3) Oda E, Ohki R, Murasawa H, et al. Noxa, a BH3-only member of the Bcl-2 family and candidate mediator of p53-induced apoptosis. <i>Science</i> 2000; 288:1053-8.</p> <p>4) Oda K, Arakawa H, Tanaka T, et al. p53AIP1, a potential mediator of p53-dependent apoptosis, and its regulation by Ser-46-phosphorylated p53. <i>Cell</i> 2000; 102:849-62.</p>

FOR RESEARCH USE ONLY

December 12, 2016