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Datasheet for 600-401-DJ1

p53R2 Antibody

Overview

Description:	Anti-p53R2 (RABBIT) Antibody - 600-401-DJ1
Item No.:	600-401-DJ1
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	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.
Synonyms:	p53R2 Antibody, P53R2, MTDPS8A, MTDPS8B, P53R2, Ribonucleoside-diphosphate reductase subunit M2 B, TP53-inducible ribonucleotide reductase M2 B, p53R2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	RRM2B
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-p53R2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 16 amino acid peptide near the N-terminus of human p53R2.

Purity/Specificity:	Anti-p53R2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with p53R2 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q7LG56 • GeneID - 50484 • NCBI - BAA92434

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-p53R2 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 41 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000-1:10,000
IF:	20 µg/mL
IHC:	1 µg/mL
WB:	0.5-1 µg/mL

Formulation

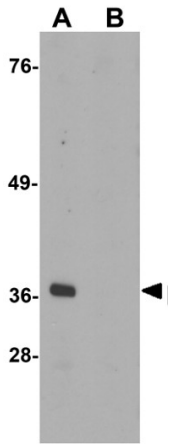
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

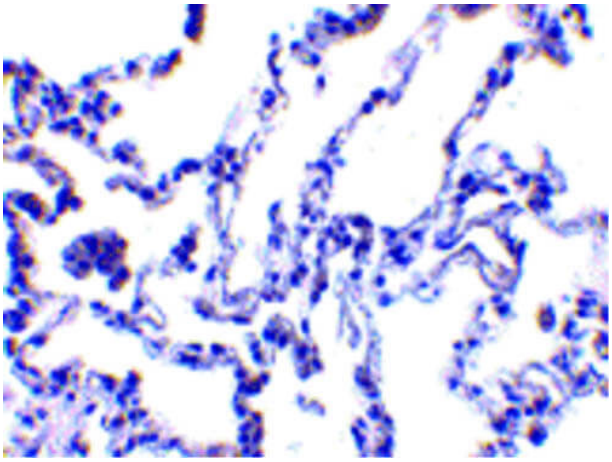
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

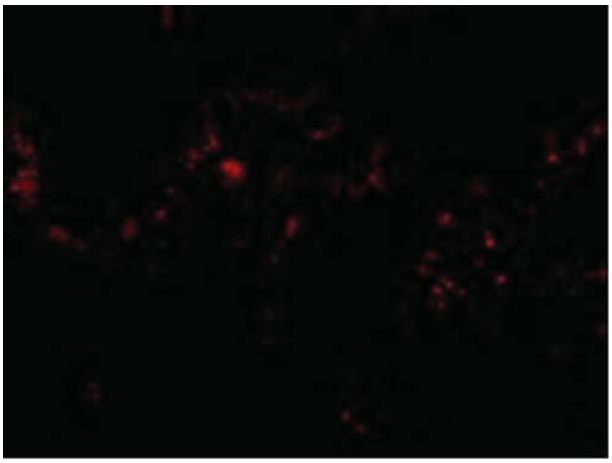
Images



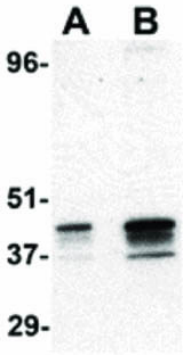
Western Blot
Western blot analysis of p53R2 in 3T3 cell lysate with p53R2 antibody at 1 µg/mL in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry
Immunohistochemistry of p53R2 antibody. Tissue: Human lung tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: p53R2 antibody at 1 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: p53R2 is nuclear and cytoplasmic. Staining: p53R2 as precipitated brown signal with hematoxylin blue nuclear counterstain.



Immunofluorescence Microscopy
Immunofluorescence Microscopy of p53R2 antibody. Tissue: Human lung cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: p53R2 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: p53R2 is nuclear and cytoplasmic. Staining: p53R2 as red fluorescent signal.



Western Blot
Western Blot of p53R2 antibody. Lane 1: A431 cell lysate with p53R2 at 0.5 µg/mL. Lane 2: A431 cell lysate with p53R2 at 1 µg/mL. Load: 35 µg per lane. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 40.7 kDa, 45 kDa for p53R2. Other band(s): p53R2 splice variants and isoforms.

Disclaimer

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