

ARG54620 anti-p53R2 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes p53R2
Tested Reactivity	Hu, Ms, Rat
Tested Application	IHC-P, WB
Specificity	This antibody recognizes an epitope at the N-terminus of human, mouse, and rat p53R2, a p53 inducible gene that contains a p53 binding sequence and encodes a subunit of the enzyme ribonucleotide reductase. p53R2 is induced by agents that cause DNA damage, such as UV and γ-irradiation. The product of the p53R2 gene is directly involved in the p53 checkpoint for repair of damaged DNA.
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	p53R2
Species	Human
Immunogen	Peptide corresponding to aa2-17 of human p53R2
Conjugation	Un-conjugated
Alternate Names	P53R2; EC 1.17.4.1; p53-inducible ribonucleotide reductase small subunit 2-like protein; TP53-inducible ribonucleotide reductase M2 B; Ribonucleoside-diphosphate reductase subunit M2 B; MTDPS8A; MTDPS8B; p53R2

Application Instructions

Application table	Application	Dilution
	IHC-P	1 - 20 µg/ml
	WB	1 µg/ml
Application Note	Western blot: use at 0.5 - 1 µg/ml. In immunoblots, a band of 39 kD is detected * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	A431	

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.4) and 0.02% Sodium azide
Preservative	0.02% Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

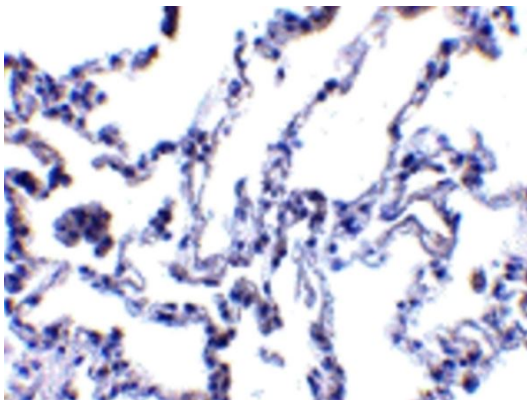
freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

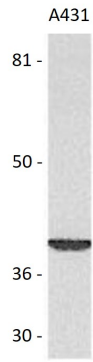
Database links	GeneID: 382985 Mouse GeneID: 50484 Human Swiss-port # Q6PEE3 Mouse Swiss-port # Q7LG56 Human
Gene Symbol	RRM2B
Gene Full Name	ribonucleotide reductase M2 B (TP53 inducible)
Background	This gene encodes the small subunit of a p53-inducible ribonucleotide reductase. This heterotetrameric enzyme catalyzes the conversion of ribonucleoside diphosphates to deoxyribonucleoside diphosphates. The product of this reaction is necessary for DNA synthesis. Mutations in this gene have been associated with autosomal recessive mitochondrial DNA depletion syndrome, autosomal dominant progressive external ophthalmoplegia-5, and mitochondrial neurogastrointestinal encephalopathy. Alternatively spliced transcript variants have been described.[provided by RefSeq, Feb 2010]
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. [UniProt]
Research Area	Cancer antibody; Gene Regulation antibody; Metabolism antibody
Calculated Mw	41 kDa

Images



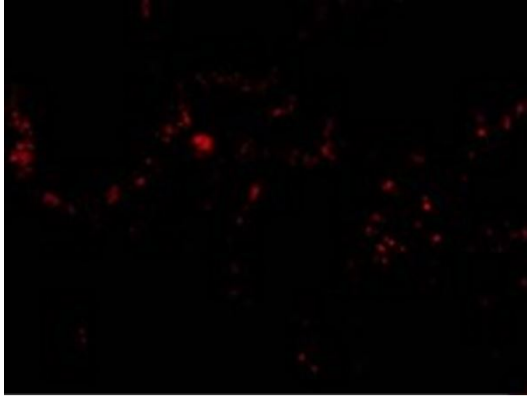
ARG54620 anti-p53R2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human lung stained with ARG54620 anti-p53R2 antibody at 1 µg/ml dilution.



ARG54620 anti-p53R2 antibody WB image

Western blot: A431 cell lysate stained with ARG54620 anti-p53R2 antibody at 1 $\mu\text{g}/\text{ml}$ dilution.



ARG54620 anti-p53R2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human lung stained with ARG54620 anti-p53R2 antibody at 20 $\mu\text{g}/\text{ml}$ dilution.