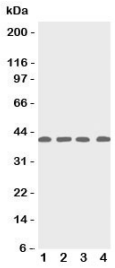
p53R2 Antibody (R31164)

Catalog No.	Formulation	Size
R31164	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	Q7LG56
Applications	Western blot: 0.5-1ug/ml
Limitations	This p53R2 antibody is available for research use only.



Western blot testing of p53R2 antbody; Lane 1: rat thymus; 2: human MCF-7; 3: (h) A431; 4: (h) HeLa cell lysate. Expected/observed size ~40KD

Description

Ribonucleotide Reductase, M2 B, also known as P53R2, is an enzyme that in humans is encoded by the RRM2B gene. Tanaka et al.(2000) mapped the gene to chromosome 8q23.1 by fluorescence in situ hybridization. Tanaka et al.(2000) found that expression of p53R2, but not R2, was induced by ultraviolet and gamma-irradiation and adriamycin treatment in a wildtype p53-dependent manner. Induction of p53R2 in p53-deficient cells caused G2/M arrest and protected cells from death in response to adriamycin. Inhibition of endogenous p53R2 expression in cells that had an intact p53-dependent DNA damage checkpoint reduced ribonucleotide reductase activity, DNA repair, and cell survival after exposure to various genotoxins.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the p53R2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human p53 reductase small subunit 2 (EGKTNFFEKRVSEYQ) was used as the immunogen for this p53R2 antibody (100% homologous in human, mouse and rat).

Storage

After reconstitution, the p53R2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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