Product Name: RDM1 Rabbit Polyclonal Antibody
Catalog #: APRab16987

Summary

Production Name	RDM1 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IHC-P,IF-P,IF-F,ICC/IF,ELISA
Reactivity	Human,Rat,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	RDM1
Alternative Names	RDM1; RAD52B; RAD52 motif-containing protein 1; RAD52 homolog B
Gene ID	201299.0
SwissProt ID	Q8NG50. The antiserum was produced against synthesized peptide derived from human RDM1. AA range:118-167

Application

Dilution Ratio	IHC-P 1:100-1:300, ELISA 1:5000, IF-P/IF-F/ICC/IF 1:50-200
Molecular Weight	

Background

This gene encodes a protein involved in the cellular response to cisplatin, a drug commonly used in chemotherapy. The

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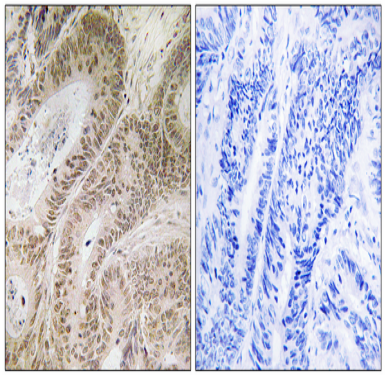
protein encoded by this gene contains two motifs: a motif found in RAD52, a protein that functions in DNA double-strand breaks and homologous recombination, and an RNA recognition motif (RRM) that is not found in RAD52. The RAD52 motif region in RAD52 is important for protein function and may be involved in DNA binding or oligomerization. Alternatively spliced transcript variants encoding different isoforms have been reported. [provided by RefSeq, Jul 2008],caution:The sequence shown here is derived from an Ensembl automatic analysis pipeline and should be considered as preliminary data.,domain:C-terminal half (amino acids 134-284) contains cytoplasmic retention domains as well as determinants involved in its stress-induced nucleolar accumulation.,function:May confer resistance to the antitumor agent cisplatin. Binds to DNA and RNA.,induction:Heat-shock stress up-regulated mRNA expression of isoform 10 and isoform 11. Heat-shock stress down-regulated short N-terminal mRNA expression of isoform 2, isoform 4, isoform 6 and isoform 9.,similarity:Contains 1 RRM (RNA recognition motif) domain.,subcellular location:Isoform 1 is predominantly cytoplasmic. Isoform 3 and isoform 10 are predominantly nuclear and nucleolar. After treatment with proteasomal inhibitors and mild heat-shock stress, isoform 1, isoform 3, isoform 5, isoform 7, isoform 8 and isoform 10 are relocalized to the nucleolus as dot-like or irregular subnuclear structures. Isoform 1 colocalized with nuclear promyelocytic leukemia (PML) and Cajal bodies (CB); this association with nuclear bodies is enhanced in response to proteotoxic stress. Isoform 3, but not isoform 1 and isoform 5, is relocalized in nucleolar caps during transcriptional arrest.,subunit:Homodimer.,tissue specificity:Expressed in testis.,

Research Area

Image Data



Immunohistochemistry analysis of paraffin-embedded human colon carcinoma, using RDM1 Antibody. The picture on the right is blocked with the synthesized peptide.

Note

For research use only.