

For Research Use Only

# RRM1 Polyclonal antibody

Catalog Number: 10526-1-AP

Featured Product

51 Publications



## Basic Information

### Catalog Number:

10526-1-AP

### Concentration:

400 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG0789

### GenBank Accession Number:

BC006498

### GeneID (NCBI):

6240

### UNIPROT ID:

P23921

### Full Name:

ribonucleotide reductase M1

### Calculated MW:

90 kDa

### Observed MW:

90 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:2000-1:16000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:100-1:600

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

### Cited Applications:

WB, IHC, IF, IP

### Species Specificity:

human, mouse, rat, monkey

### Cited Species:

human, mouse, xenopus

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB:** A431 cells, HeLa cells, A549 cells, K-562 cells, BxPC-3 cells, HEK-293 cells, U-251 cells

**IP:** K-562 cells,

**IHC:** human breast cancer tissue, human lung cancer tissue, human ovary tumor tissue

**IF/ICC:** HepG2 cells, Raji cells

## Background Information

Ribonucleoside-diphosphate reductase functions as a heterodimer of a large and a small subunits in deoxyribonucleotide synthesis. RRM1 constitutes to the large subunit (R1) of ribonucleotide reductase, and it can either form heterodimer with small subunit RRM or RRM2B(PMID:16376858). RRM1 provides the precursors necessary for DNA synthesis. RRM1 can not be detected in quiescent cells, while its mRNA and protein are present throughout the cell cycle in cycling cells(PMID:8188248). Researches showed that RRM1 is involved in carcinogenesis, tumor progression, and the resistance of non-small-cell lung cancer (NSCLC) to treatment. Low level expression of RRM1 in NSCLC is associated with poor survival (PMID:17314339).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yukio Watanabe	25257380	Histopathology	IHC
Martin Kerr	25224279	Clin Cancer Res	WB
Csaba Tóth	28949378	Int J Mol Med	IHC

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

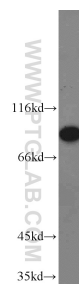
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

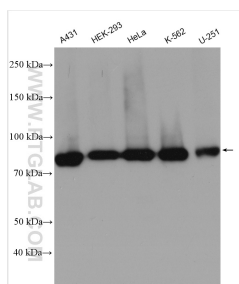
W: [ptgcn.com](http://ptgcn.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

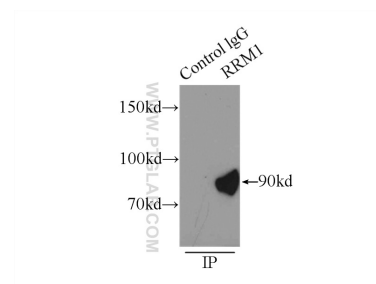
## Selected Validation Data



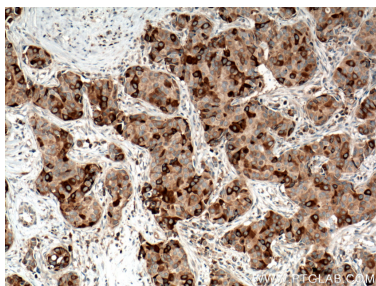
HeLa cells were subjected to SDS PAGE followed by western blot with 10526-1-AP (RRM1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



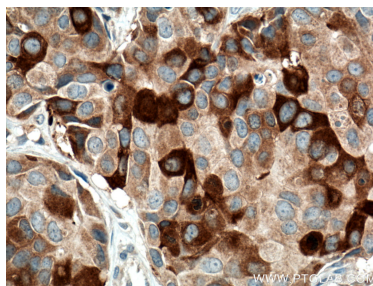
A431 cells were subjected to SDS PAGE followed by western blot with 10526-1-AP (RRM1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



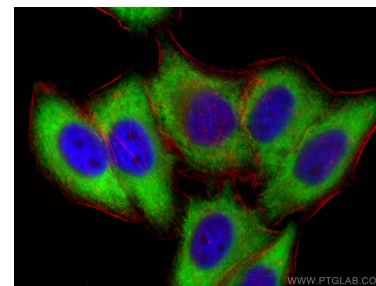
IP result of anti-RRM1 (IP:10526-1-AP, 5ug; Detection:10526-1-AP 1:800) with K-562 cells lysate 8000ug.



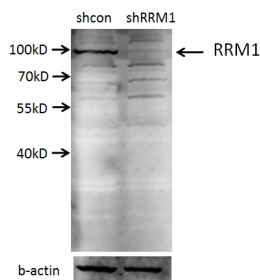
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10526-1-AP (RRM1 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



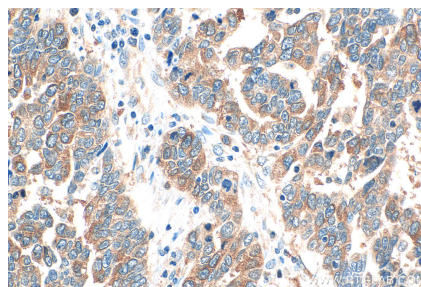
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10526-1-AP (RRM1 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



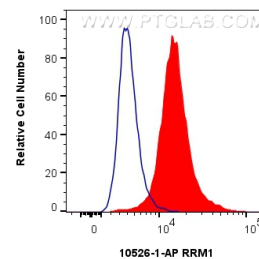
Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using RRM1 antibody (10526-1-AP) at dilution of 1:200 and Coralite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).



A549 cells (shcontrol and shRNA of RRM1) were subjected to SDS PAGE followed by western blot with 10526-1-AP (RRM1 antibody) at dilution of 1:2000. .



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 10526-1-AP (RRM1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10<sup>6</sup> HeLa cells were intracellularly stained with 0.4 ug RRM1 Polyclonal antibody (10526-1-AP) and Coralite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-O-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).