For Research Use Only

# RRM2 Polyclonal antibody

Catalog Number:11661-1-AP 21 Publications

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## Basic Information

Catalog Number:
11661-1-AP

Concentration:
500 ug/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG2203

GenBank Accession Number:
BC030154

GeneID (NCBI):
6241

UNIPROT ID:
P31350

Full Name:
ribonucleotide reductase M2 polypeptide

Calculated MW:
389 aa, 45 kDa

Observed MW:
45 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:6000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:1000-1:4000
IF/ICC 1:200-1:800

## Applications

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

Cited Applications:
WB, IHC, IF, IP, CoIP, RIP

Species Specificity:
human

Cited Species:
human, mouse, chicken

***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 : HeLa cells, A431 cells, HUVEC cells, K-562 cells

IP : K-562 cells,

IHC : human appendicitis tissue,

IF/ICC : HepG2 cells,

## Background Information

Ribonucleotide reductase M2 subunit is one of two subunits that constitute ribonucleotide reductase, the enzyme that catalyzes the conversion of ribonucleotide 5'-diphosphates into 2'-deoxyribonucleotides, a rate-limiting step in the production of 2'-deoxyribonucleoside 5'-diphosphates (dNTP) required for DNA synthesis and repair that is required for DNA synthesis and repair [PMID:20825972, 19250552]. RRM2 is only expressed during the late G1/early S phase, and degraded in late S phase, and the activity of RNR, and therefore DNA synthesis and cell proliferation, is controlled during the cell cycle by the synthesis and degradation of RRM2 subunit [PMID:3894352].

## Notable Publications

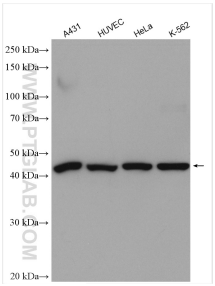
| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Qiao Song | 36243980 | Nucleic Acids Res | WB,CoIP |
| Tingbo Ye | 35677150 | Front Oncol | IHC |
| Binshan Shi | 29587790 | Virol J | WB |

## Storage

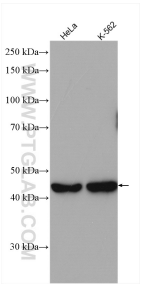
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

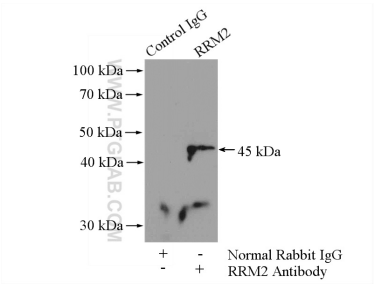
## Selected Validation Data



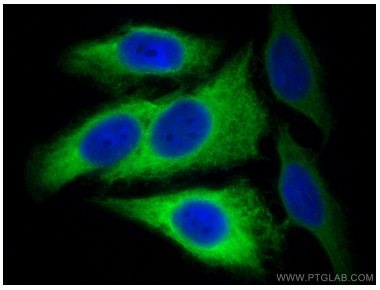

Various lysates were subjected to SDS PAGE followed by western blot with 11661-1-AP (RRM2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



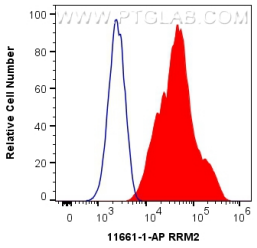

Various lysates were subjected to SDS PAGE followed by western blot with 11661-1-AP (RRM2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



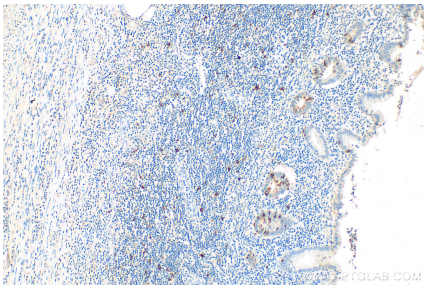

IP result of anti-RRM2 (IP:11661-1-AP, 4ug; Detection:11661-1-AP 1:500) with K-562 cells lysate 1200ug.



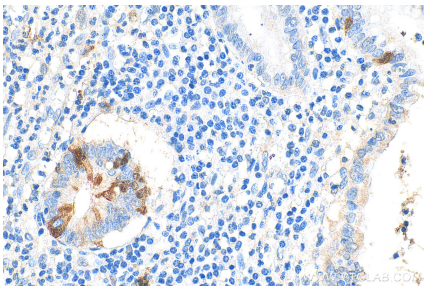

Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using RRM2 antibody (11661-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



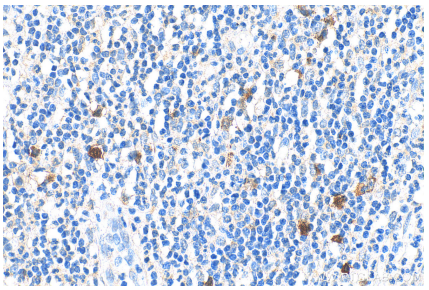

1X10^6 HepG2 cells were intracellularly stained with 0.4 ug Anti-Human RRM2 (11661-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).




Immunohistochemical analysis of paraffin-embedded human appendicitis tissue slide using 11661-1-AP (RRM2 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human appendicitis tissue slide using 11661-1-AP (RRM2 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human appendicitis tissue slide using 11661-1-AP (RRM2 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).