For Research Use Only

RRM2 Monoclonal antibody

Catalog Number:67006-1-Ig 4 Publications

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Basic Information

Catalog Number:
67006-1-Ig

Size:
150ul , Concentration: 1000 ug/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG28664

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:
Protein A purification

CloneNo.:
2A9A7

Recommended Dilutions:
WB 1:5000-1:50000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:2000-1:8000
IF/ICC 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Cited Applications:
WB, IF, CoIP

Species Specificity:
human

Cited Species:
human, mouse

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, HEK-293 cells, MCF-7 cells, A431 cells, Jurkat cells, K-562 cells, THP-1 cells

IP : HEK-293 cells,

IHC : human skin cancer 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
S M Du	32122142	Neoplasma	WB
Heng Gao	39630361	Mol Cell Biochem	WB
Zhouyuan Du	39398252	iScience	IF

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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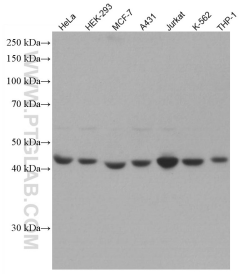
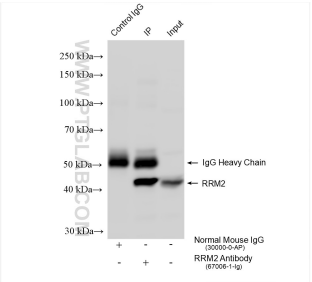
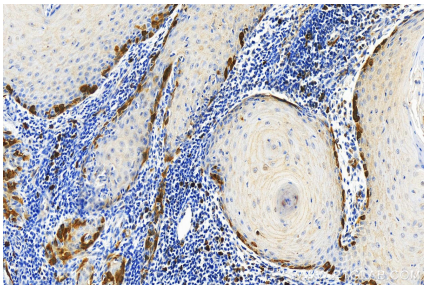
Selected Validation Data



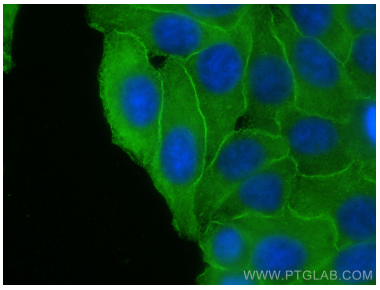
Various lysates were subjected to SDS PAGE followed by western blot with 67006-1-Ig (RRM2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



IP result of anti-RRM2 (IP:67006-1-Ig, 4ug; Detection:67006-1-Ig 1:2000) with HEK-293 cells lysate 1470 ug.



Immunohistochemical analysis of paraffin-embedded skin cancer slide using 67006-1-Ig (RRM2 antibody) at dilution of 1:4000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using RRM2 antibody (67006-1-Ig, Clone: 2A9A7) at dilution of 1:400 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002).