

For Research Use Only

RRM1 Monoclonal antibody

Catalog Number: 60073-2-Ig

Featured Product

6 Publications



Basic Information

Catalog Number:

60073-2-Ig

Size:

2000 ug/ml

Source:

Mouse

Isotype:

IgG2b

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:

Protein A purification

CloneNo.:

5H6F3

Recommended Dilutions:

WB 1:1000-1:4000

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

IHC 1:3000-1:8000

IF-P 1:200-1:800

IF/ICC 1:400-1:1600

Applications

Tested Applications:

WB, IHC, IF/ICC, IF-P, IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human

Cited Species:

human

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 : K-562 cells, HeLa cells

IP : K-562 cells,

IHC : human breast cancer tissue, human colon cancer tissue, human lung cancer tissue, human pancreas cancer tissue, human urothelial carcinoma tissue

IF-P : human breast cancer tissue,

IF/ICC : HepG2 cells, HeLa 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
Toru Aoyama	28521448	Oncol Lett	IHC
Donghua Geng	35837166	J Gastrointest Oncol	WB
Sean G Rudd	31950591	EMBO Mol Med	WB

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

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

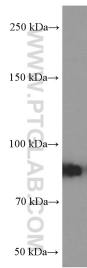
T: 4006900926

E: Proteintech-CN@ptglab.com

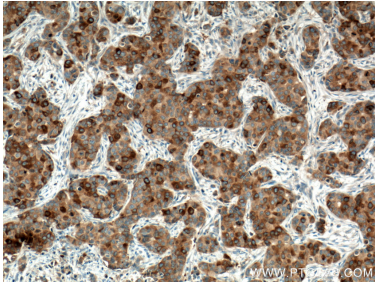
W: ptgcn.com

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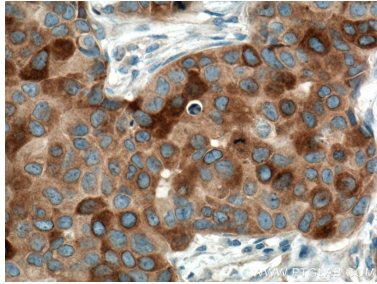
Selected Validation Data



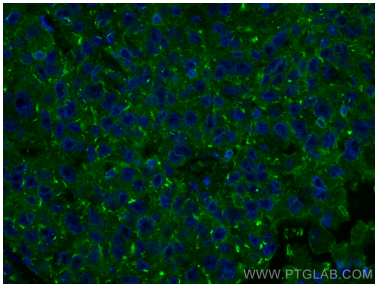
K-562 cells were subjected to SDS PAGE followed by western blot with 60073-2-Ig (RRM1 Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



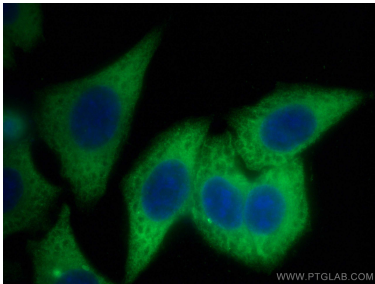
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 60073-2-Ig (RRM1 antibody) at dilution of 1:5000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



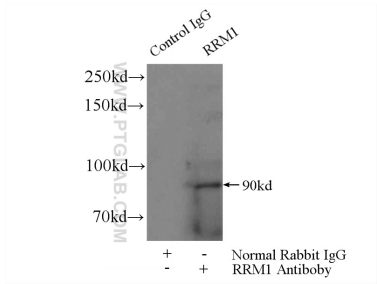
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 60073-2-Ig (RRM1 antibody) at dilution of 1:5000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using RRM1 antibody (60073-2-Ig, Clone: 5H6F3) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using RRM1 antibody (60073-2-Ig, Clone: 5H6F3) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



IP result of anti-RRM1 (IP:60073-2-Ig, 5ug; Detection:60073-2-Ig 1:1000) with K-562 cells lysate 3440ug.



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 60073-2-Ig (RRM1 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).