

RRM1 Monoclonal antibody

Catalog Number: 60073-2-Ig

Featured Product

7 Publications

Basic Information

Catalog Number:

60073-2-Ig

Size:

150ul, Concentration: 2000 ug/ml by 6240
Nanodrop and 1000 ug/ml by Bradford
method using BSA as the standard;

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, IP

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, pH7.3

Aliquoting is unnecessary for -20°C storage

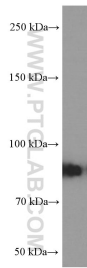
*** 20ul sizes contain 0.1% BSA

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

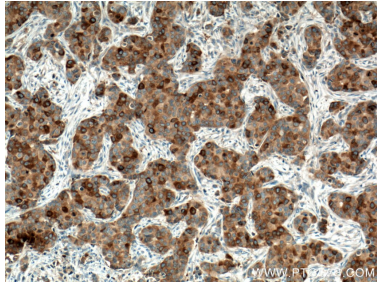
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.com
W: ptglab.com

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

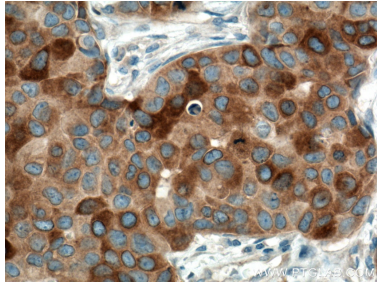
Selected Validation Data



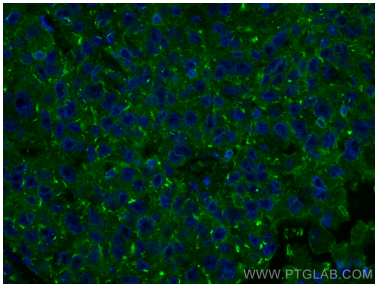
K-562 cells were subjected to SDS PAGE followed by western blot with 60073-2-Ig (RRM1 Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



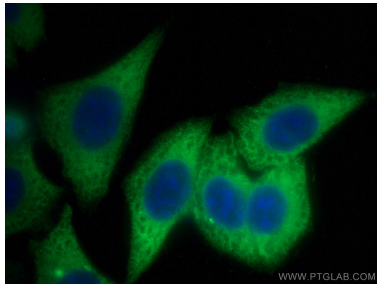
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 60073-2-Ig (RRM1 antibody) at dilution of 1:5000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



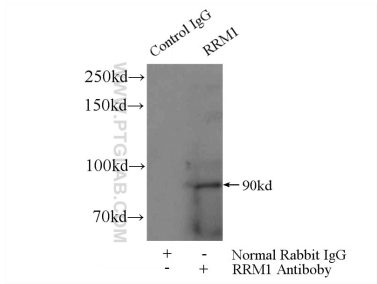
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 60073-2-Ig (RRM1 antibody) at dilution of 1:5000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



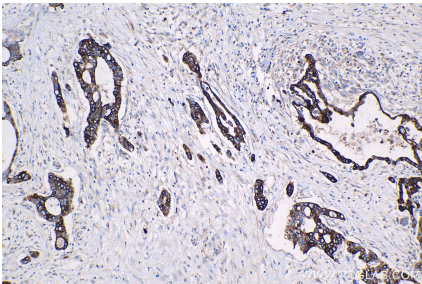
Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using RRM1 antibody (60073-2-Ig, Clone: 5H6F3) at dilution of 1:400 and Coralite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



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).