

For Research Use Only

# RRM1 Monoclonal antibody

Catalog Number: 60073-1-Ig **3 Publications**



## Basic Information

<b>Catalog Number:</b> 60073-1-Ig	<b>GenBank Accession Number:</b> BC006498	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1500 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 6240	<b>CloneNo.:</b> 4C12E10
<b>Source:</b> Mouse	<b>Full Name:</b> ribonucleotide reductase M1	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 90 kDa	<b>IHC 1:3000-1:8000</b>
<b>Immunogen Catalog Number:</b> AG0789	<b>Observed MW:</b> 90 kDa	

## Applications

<b>Tested Applications:</b> FC, IHC, IP, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IF, IHC, WB	<b>WB :</b> K-562 cells,
<b>Species Specificity:</b> human, mouse	<b>IP :</b> K-562 cells,
<b>Cited Species:</b> human	<b>IHC :</b> human breast cancer tissue, human lung cancer tissue, human urothelial carcinoma tissue, human colon cancer tissue, human ovary tumor tissue, human cervical cancer tissue
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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. 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
Marcus J C Long	31836351	Cell Chem Biol	WB, IF
Lv Chao C	23621919	World J Surg Oncol	IHC
Lifei Fan	28467790	Oncotarget	WB

## Storage

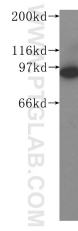
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

**\*\*\* 20ul sizes contain 0.1% BSA**

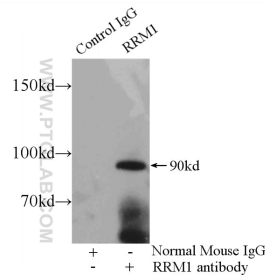
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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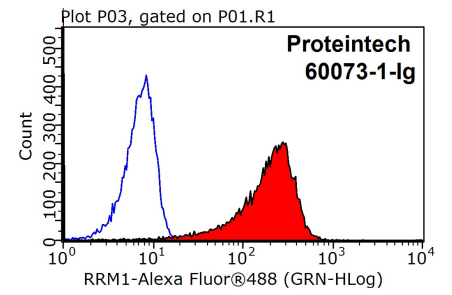
## Selected Validation Data



K-562 cells were subjected to SDS PAGE followed by western blot with 60073-1-Ig (RRM1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



IP Result of anti-RRM1 (IP:60073-1-Ig, 5ug; Detection:60073-1-Ig 1:1000) with K-562 cells lysate 3200ug.



1X10<sup>6</sup> HepG2 cells were stained with .2ug RRM1 antibody (60073-1-Ig, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L) with dilution 1:1000.