

For Research Use Only

# CoraLite®594-conjugated RRM1 Monoclonal antibody



Catalog Number:CL594-60073

## Basic Information

<b>Catalog Number:</b> CL594-60073	<b>GenBank Accession Number:</b> BC006498	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 6240	<b>CloneNo.:</b> 5H6F3
<b>Source:</b> Mouse	<b>Full Name:</b> ribonucleotide reductase M1	<b>Recommended Dilutions:</b> IF 1:50-1:500
<b>Isotype:</b> IgG2b	<b>Calculated MW:</b> 90 kDa	<b>Excitation/Emission maxima wavelengths:</b> 593 nm / 614 nm
<b>Immunogen Catalog Number:</b> AG0789	<b>Observed MW:</b> 90 kDa	

## Applications

<b>Tested Applications:</b> FC (Intra), IF	<b>Positive Controls:</b> IF : HepG2 cells, human breast cancer tissue
<b>Species Specificity:</b> human	

## 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).

## Storage

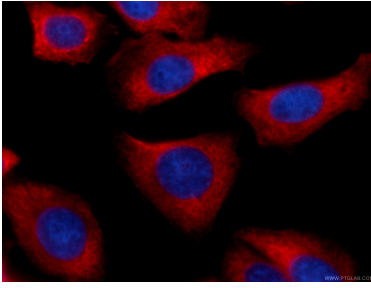
**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

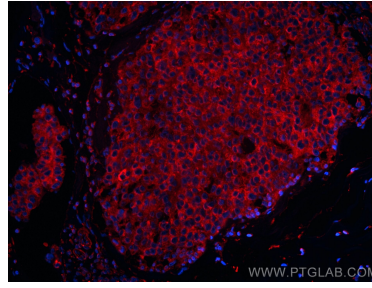
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

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

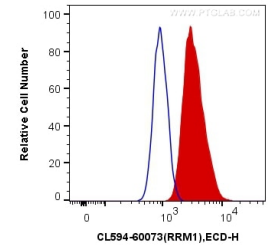
## Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using CL594-60073 (RRM1 antibody) at dilution of 1:100.



Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using CoraLite®594 RRM1 antibody (CL594-60073, Clone: 5H6F3) at dilution of 1:200.



1X10<sup>6</sup> HepG2 cells were intracellularly stained with 0.4 ug CoraLite®594 Anti-Human RRM1 (CL594-60073, Clone:5H6F3) (red), or 0.4 ug Mouse IgG2b Isotype Control (CL594-66360-3, Clone: K11B8C4B5) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).