For Research Use Only

CoraLite®594-conjugated RRM1 Monoclonal antibody

Catalog Number:CL594-60073

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
CL594-60073

Size:
1000 μg/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:
IF-P 1:50-1:500
IF/ICC 1:50-1:500

Excitation/Emission maxima wavelengths:
588 nm / 604 nm

Applications

Tested Applications:
IF/ICC, IF-P, FC (Intra)

Species Specificity:
human

Positive Controls:

IF-P : human breast cancer tissue,

IF/ICC : HepG2 cells,

Background Information

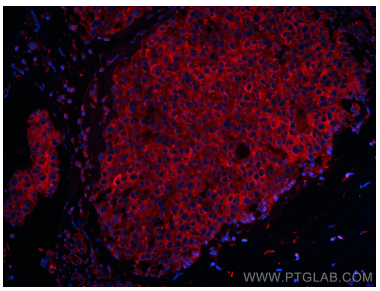
Ribonucleoside-diphosphate reductase functions as a heterodimer of a large and a small subunits in deoxyribonucleotide synthesis. RRM1 constitutes to the large subunit (R1) of ribonucleotide reductase, and it can either form heterodimer with small subunit RRM or RRM2B(PMID:16376858). RRM1 provides the 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).

Storage

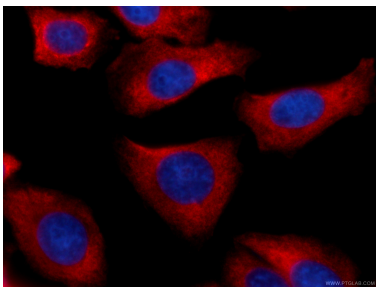
Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

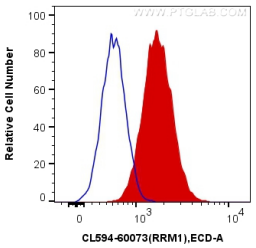
Selected Validation Data



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



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



1X10^6 HepG2 cells were intracellularly stained with 0.4 ug CoraLite®594 Anti-Human RRM1 (CL594-60073, Clone:5H6F3) (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).