CoraLite® Plus 488-conjugated RRM2 Polyclonal antibody

Catalog Number: CL488-11661

Proteintech®
Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
CL488-11661

Size:
1000 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG2203

GenBank Accession Number:
BC030154

GeneID (NCBI):
6241

UNIPROT ID:
P31350

Full Name:
ribonucleotide reductase M2 polypeptide

Calculated MW:
389 aa, 45 kDa

Observed MW:
45 kDa

Purification Method:
Antigen affinity purification

Excitation/Emission maxima wavelengths:
493 nm / 522 nm

Applications

Tested Applications:
FC (Intra), IF/ICC

Species Specificity:
human

Background Information

Ribonucleotide reductase M2 subunit is one of two subunits that constitute ribonucleotide reductase, the enzyme that catalyzes the conversion of ribonucleotide 5'-diphosphates into 2'-deoxyribonucleotides, a rate-limiting step in the production of 2'-deoxyribonucleoside 5'-diphosphates (dNTP) required for DNA synthesis and repair that is required for DNA synthesis and repair [PMID:20825972, 19250552]. RRM2 is only expressed during the late G1/early S phase, and degraded in late S phase, and the activity of RNR, and therefore DNA synthesis and cell proliferation, is controlled during the cell cycle by the synthesis and degradation of RRM2 subunit [PMID:3894352].
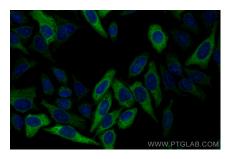
Storage

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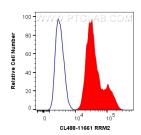**Storage Buffer:**
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

Selected Validation Data

Immunofluorescent analysis of (-20℃ Methanol) fixed HepG2 cells using CoraLite® Plus 488 RRM2 antibody (CL488-11661) at dilution of 1:0.

1X10^6 HepG2 cells were intracellularly stained with 0.8 ug CoraLite® Plus 488 Anti-Human RRM2 (CL488-11661) (red), or 0.8 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).