

CoraLite® Plus 488-conjugated RBP5

Monoclonal antibody

Catalog Number: **CL488-68126**

Basic Information

Catalog Number:

CL488-68126

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG24562

GenBank Accession Number:

BC029355

GeneID (NCBI):

83758

UNIPROT ID:

P82980

Full Name:

retinol binding protein 5, cellular

Calculated MW:

135 aa, 16 kDa

Observed MW:

16-18 kDa

Purification Method:

Protein G purification

CloneNo.:

1G7E2

Recommended Dilutions:

IF/ICC 1:50-1:500

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

Applications

Tested Applications:

IF/ICC

Species Specificity:

Human, pig

Positive Controls:

IF/ICC : HepG2 cells, A431 cells

Background Information

RBP5 (CRBP III) belongs to the fatty-acid binding protein (FABP) family. Human liver and kidney contain the highest levels of CRBP III mRNA, and CRBP III is as a major human intracellular carrier of retinol (PMID:11274389). RBP5 iron response are reversible by genetic complementation. And increased RBP5 expression occurs by a post-transcriptional feedback mechanism whereby RBP5 interacts with its own, and with PAP2 mRNAs. RBP5 is the most significant of the proteins upregulated by iron starvation (PMID:34161395). RBP5 has an estimated molecular mass (15.9 kDa) typical of this protein superfamily (PMID:11274389).

Storage

Storage:

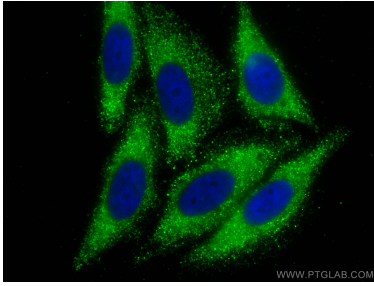
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

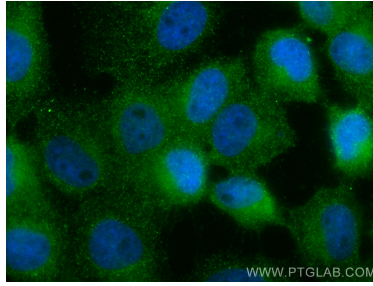
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using CoraLite® Plus 488 RBP5 antibody (CL488-68126, Clone: 1G7E2) at dilution of 1:200.



Immunofluorescent analysis of (4% PFA) fixed A431 cells using CoraLite® Plus 488 RBP5 antibody (CL488-68126, Clone: 1G7E2) at dilution of 1:200.