

For Research Use Only

# CoraLite® Plus 488-conjugated RBP5 Monoclonal antibody

Catalog Number:CL488-68126



## Basic Information

<b>Catalog Number:</b> CL488-68126	<b>GenBank Accession Number:</b> BC029355	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 83758	<b>CloneNo.:</b> 1G7E2
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P82980	<b>Recommended Dilutions:</b> IF/ICC 1:50-1:500
<b>Isotype:</b> IgG1	<b>Full Name:</b> retinol binding protein 5, cellular	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>Immunogen Catalog Number:</b> AG24562	<b>Calculated MW:</b> 135 aa, 16 kDa	
	<b>Observed MW:</b> 16-18 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC	<b>Positive Controls:</b> IF/ICC : HepG2 cells, A431 cells
<b>Species Specificity:</b> Human, pig	

## 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).

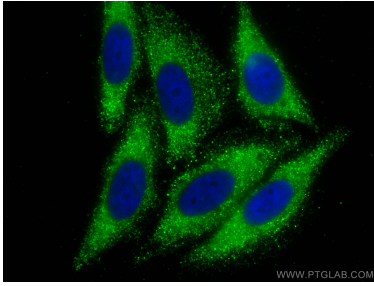
## Storage

**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**

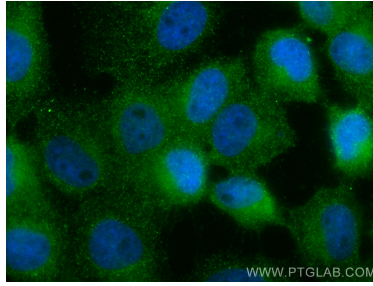
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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## Selected Validation Data



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.