

For Research Use Only

# CoraLite® Plus 488-conjugated APPL1 Monoclonal antibody



Catalog Number: **CL488-68195**

## Basic Information

Catalog Number:

CL488-68195

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG3334

GenBank Accession Number:

BC028599

GeneID (NCBI):

26060

UNIPROT ID:

Q9UKG1

Full Name:

adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 1

Calculated MW:

709 aa, 80 kDa

Observed MW:

80 kDa

Purification Method:

Protein A purification

CloneNo.:

1B7B11

Recommended Dilutions:

IF 1:50-1:500

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

## Applications

Tested Applications:

IF/ICC

Species Specificity:

Human, mouse, rat, rabbit, pig

Positive Controls:

IF : HepG2 cells,

## Background Information

Adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 1 (APPL1), a binding partner of Akt2 and an important regulator of INS signaling, plays a key role in the regulation of INS secretion [PMID:22615370]. APPL1 interacts with adiponectin receptors and mediates the INS-sensitizing effects of adiponectin in muscle and endothelial cells. It also participates in nuclear signaling and transcriptional regulation, mostly by modulating the activity of various nuclear factors [PMID:22685329]. Apart from its role in endocytosis and endosomal transport, APPL1 was reported to undergo nucleocytoplasmic shuttling and participate in transcriptional regulation, e.g. by interactions with histone deacetylases (HDACs) [PMID:19686092].

## 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:

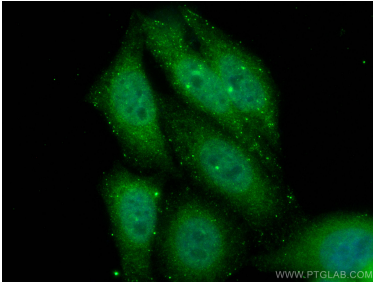
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CoraLite® Plus 488 APPL1 antibody (CL488-68195, Clone: 1B7B11) at dilution of 1:50.