

For Research Use Only

# CoraLite® Plus 647-conjugated PNPT1 Monoclonal antibody

Catalog Number: CL647-68309



## Basic Information

### Catalog Number:

CL647-68309

### Size:

100ul , Concentration: 1000 ug/ml by Nanodrop;

### Source:

Mouse

### Isotype:

IgG1

### Immunogen Catalog Number:

AG6290

### GenBank Accession Number:

BC053660

### GeneID (NCBI):

87178

### UNIPROT ID:

Q8TCS8

### Full Name:

polyribonucleotide nucleotidyltransferase 1

### Calculated MW:

86 kDa

### Observed MW:

86 kDa

### Purification Method:

Protein G purification

### CloneNo.:

3F2A1

### Recommended Dilutions:

IF/ICC: 1:50-1:500

FC (Intra): 0.8 ug per 10<sup>6</sup> cells in a 100 µl suspension

### Excitation/Emission maxima wavelengths:

654 nm / 674 nm

## Applications

### Tested Applications:

IF/ICC, FC (Intra)

### Species Specificity:

human, mouse, rat

### Positive Controls:

IF/ICC : A431 cells, HeLa cells

FC (Intra) : HepG2 cells,

## Background Information

PNPT1 (polynucleotide phosphorylase1; also known as PNPASE) localizes in the mitochondrial intermembrane and regulates RNA import into mitochondria (20691904). PNPT1 is also involved in mRNA degradation. As a type I IFN-inducible gene, PNPT1 plays an essential role in mediating IFN-mediated inflammatory processes (17804700). Recently mutation in PNPT1 has been reported to cause hereditary hearing loss (23084290). This antibody detected the endogenous PNPT1 around 80 kDa in mouse brain.

## 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, pH7.3

Aliquoting is unnecessary for -20°C storage

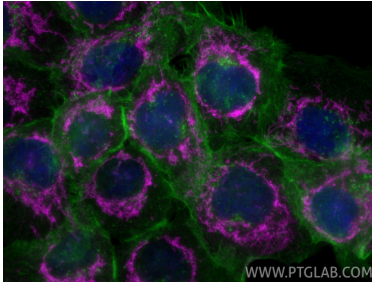
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

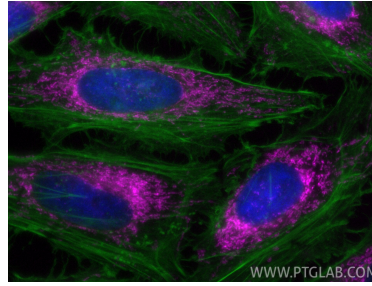
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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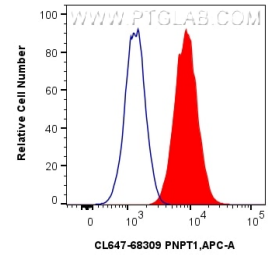
## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed A431 cells using Coralite® Plus 647 PNPT1 antibody (CL647-68309, Clone: 3F2A1 ) at dilution of 1:200, CL488-phalloidin (green).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Coralite® Plus 647 PNPT1 antibody (CL647-68309, Clone: 3F2A1 ) at dilution of 1:200, CL488-phalloidin (green).



1x10<sup>6</sup> HepG2 cells were intracellularly stained with 0.8 ug Coralite® Plus 647 Pnpt1 Monoclonal Antibody (CL647-68309, Clone:3F2A1)(red), or 0.8 ug Coralite® Plus 647 Mouse IgG1 Isotype Control (MOPC-21) (CL647-65124, Clone: MOPC-21) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).