

For Research Use Only

# CoraLite® Plus 488-conjugated ATG13 Monoclonal antibody



Catalog Number:CL488-66708

## Basic Information

Catalog Number:

CL488-66708

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG12968

GenBank Accession Number:

BC001331

GeneID (NCBI):

9776

UNIPROT ID:

O75143

Full Name:

KIAA0652

Calculated MW:

57 kDa

Observed MW:

57 kDa

Purification Method:

Protein G purification

CloneNo.:

1C3A7

Recommended Dilutions:

IF 1:50-1:500

Excitation/Emission maxima  
wavelengths:

493 nm / 522 nm

## Applications

Tested Applications:

FC (Intra), IF/ICC

Species Specificity:

Human, Mouse, Rat, Pig

Positive Controls:

IF : HEK-293 cells,

## Background Information

ATG13 is one component protein of the ULK1 complex which is required for autophagosome formation and mitophagy. ATG13 has two nutrient regulatory phosphorylation sites and the phosphorylation status of ATG13 affect regulation of autophagy by modulating enzyme activity and cellular localization of ULK1. Besides, it has been reported the nonautophagic function of ATG13 on cardiac development for ATG13-deficient embryos show myocardial growth defects.(PMID:27387056, 26801615, 26644405)

## 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:

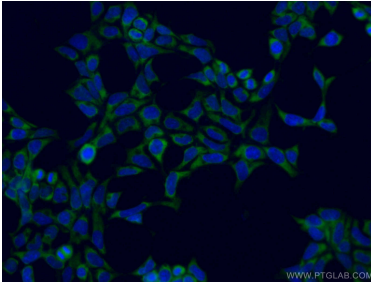
T: 4006900926

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

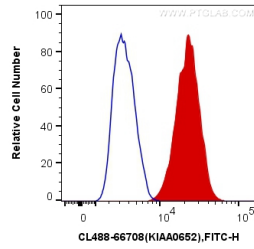
W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using CL488-66708 (ATG13 antibody) at dilution of 1:100.



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Anti-Human ATG13 (CL488-66708, Clone:1C3A7) (red), or 0.4 ug Mouse IgG1 Isotype Control (CL488-66360, Clone: T1F8D3F10) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).