

For Research Use Only

# CoraLite® Plus 488-conjugated RANGAP1 Monoclonal antibody



Catalog Number:CL488-67146

## Basic Information

|   |  |   |
|---|--|---|
| <b>Catalog Number:</b><br>CL488-67146       | <b>GenBank Accession Number:</b><br>BC014044         | <b>Purification Method:</b><br>Protein G purification                 |
| <b>Size:</b><br>1000 ug/ml                  | <b>GeneID (NCBI):</b><br>5905                        | <b>CloneNo.:</b><br>1F3A4   |
| <b>Source:</b><br>Mouse                     | <b>UNIPROT ID:</b><br>P46060                         | <b>Recommended Dilutions:</b><br>IF/ICC 1:50-1:500                    |
| <b>Isotype:</b><br>IgG1                     | <b>Full Name:</b><br>Ran GTPase activating protein 1 | <b>Excitation/Emission maxima<br/>wavelengths:</b><br>493 nm / 522 nm |
| <b>Immunogen Catalog Number:</b><br>AG26136 | <b>Calculated MW:</b><br>64 kDa                      |   |
|   | <b>Observed MW:</b><br>64 kDa, 82 kDa                |   |

## Applications

|  |  |
|--|--|
| <b>Tested Applications:</b><br>IF/ICC            | <b>Positive Controls:</b><br>IF/ICC : HepG2 cells, |
| <b>Species Specificity:</b><br>human, mouse, rat |  |

## Background Information

RanGAP1 is a protein that associates with the nuclear pore complex and participates in the regulation of nuclear transport. In mammalian cells, unmodified RanGAP1 is predominantly cytoplasmic, whereas modification by small ubiquitin-related modifier protein (SUMO) targets RanGAP1 to the cytoplasmic filaments of nuclear pore complex (NPC) where it forms a complex with RanBP2 and Ubc9. Phosphorylation of RanGAP1 occurs in a cell-cycle-dependent manner and may play a role in regulating RanGAP1 catalytic activity. We got 64 kDa (cytoplasmic Ran GAP1) and 82 kDa (SUMO-1 modified Ran GAP1) in western blotting.

## 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:

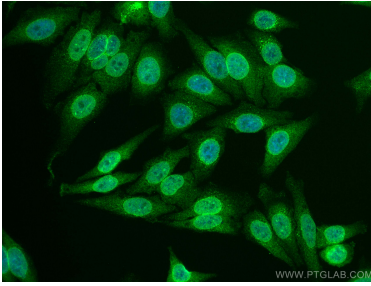
T: 4006900926

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

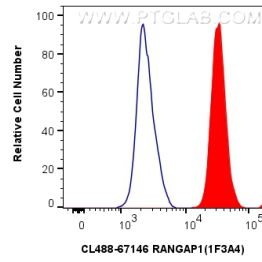
W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using Coralite® Plus 488 RANGAP1 antibody (CL488-67146, Clone: 1F3A4) at dilution of 1:200.



1x10<sup>6</sup> HepG2 cells were intracellularly stained with 0.4 ug Coralite® Plus 488-conjugated RANGAP1 Monoclonal antibody (CL488-67146, Clone:1F3A4)(red), or 0.4 ug Coralite® Plus 488 Mouse IgG1 Isotype Control (1F8D3) (CL488-66360-1, Clone: 1F8D3) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).