

# CoraLite® Plus 488-conjugated EIF4A2 Monoclonal antibody

Catalog Number: **CL488-67799**

## Basic Information

**Catalog Number:**

CL488-67799

**Size:**

1000 µg/ml

**Source:**

Mouse

**Isotype:**

IgG2a

**Immunogen Catalog Number:**

AG9085

**GenBank Accession Number:**

BC012547

**GeneID (NCBI):**

1974

**UNIPROT ID:**

Q14240

**Full Name:**

eukaryotic translation initiation  
factor 4A, isoform 2

**Calculated MW:**

408 aa, 46 kDa

**Observed MW:**

46 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

2D11E11

**Recommended Dilutions:**

IF/ICC 1:50-1:500

**Excitation/Emission maxima  
wavelengths:**

493 nm / 522 nm

## Applications

**Tested Applications:**

IF/ICC, FC (Intra)

**Species Specificity:**

Human, Rat, Mouse

**Positive Controls:**

IF/ICC : HEK-293 cells,

## Background Information

Eukaryotic initiation factor 4A (EIF4A) has an essential role in the binding of mRNA to the 43S preinitiation complex when protein synthesis begins, as EIF4A unwinds RNA secondary structures in the 5'-UTR of mRNAs which is necessary to allow efficient binding of the small ribosomal subunit, and subsequent scanning for the initiator codon. EIF4A2 is a ATP-dependent RNA helicase, which is a subunit of the eIF4F complex involved in cap recognition and is required for mRNA binding to ribosome.

## Storage

**Storage:**

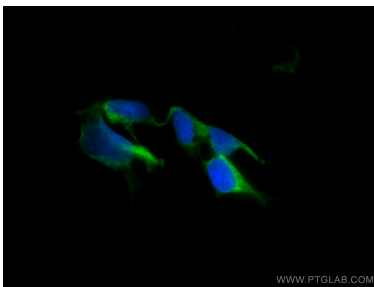
Store at -20°C. Avoid exposure to light.

**Storage Buffer:**

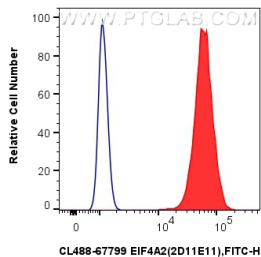
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HEK-293 cells using Coralite® Plus 488 EIF4A2 antibody (CL488-67799, Clone: 2D11E11 ) at dilution of 1:100.



1X10<sup>6</sup> HEK-293 cells were intracellularly stained with 0.4 ug Coralite® Plus 488 Anti-Human EIF4A2 (CL488-67799, Clone:2D11E11) (red), or 0.4 ug Coralite® Plus 488 Mouse IgG2a Isotype Control (C1.18.4) (CL488-65208, Clone: C1.18.4) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).