

For Research Use Only

CoraLite® Plus 488-conjugated EIF4G1 Monoclonal antibody



Catalog Number: CL488-67199

Basic Information

Catalog Number:

CL488-67199

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG8357

GenBank Accession Number:

BC007788

GeneID (NCBI):

1981

UNIPROT ID:

Q04637

Full Name:

eukaryotic translation initiation

factor 4 gamma, 1

Calculated MW:

1600 aa, 176 kDa

Observed MW:

240-250 kDa

Purification Method:

Protein G purification

CloneNo.:

2B10G8

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

Positive Controls:

IF : HepG2 cells,

Background Information

Eukaryotic cellular messenger RNAs are posttranscriptionally modified by addition of an m(7)GTP moiety to the 5-prime terminus, referred to as a cap. Recognition of the cap structure and unwinding of mRNA secondary structure during the initiation phase of protein synthesis is catalyzed by initiation factors of the eIF4 group. EIF4G1, a subunit of eIF4 gamma, forms various complexes with the other eIF4 polypeptides [PMID: 7601469]. Mutations in the EIF4G1 gene, encoding a component of the eIF4F translation initiation complex, were recently reported as a possible cause for the autosomal dominant form of Parkinson's disease [PMID:22658323]. The calculated molecular weight of EIF4G1 is 175 kDa, but modified EIF4G1 is about 220-240 kDa. (PMID: 18426977)

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

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

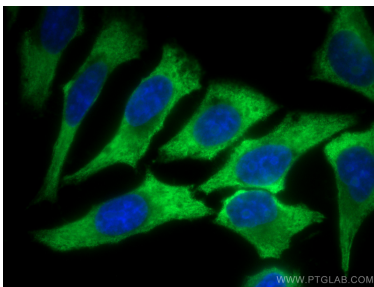
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Selected Validation Data



Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using CoraLite® Plus 488 EIF4G1 antibody (CL488-67199, Clone: 2B10G8) at dilution of 1:200.