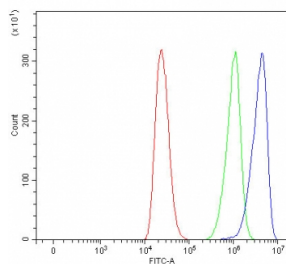


## EIF4G2 Antibody / Eukaryotic translation initiation factor 4 gamma 2 / DAP5 (RQ7738)

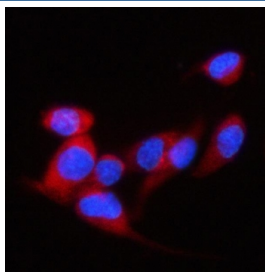
Catalog No.	Formulation	Size
RQ7738	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

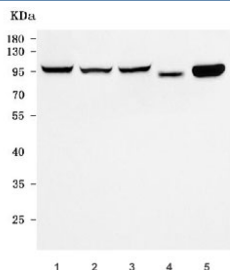
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human, Mouse, Rat, Monkey
<b>Format</b>	Antigen affinity purified
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity purified
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose
<b>UniProt</b>	P78344
<b>Localization</b>	Cytoplasmic
<b>Applications</b>	Western Blot : 0.5-1ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
<b>Limitations</b>	This EIF4G2 antibody is available for research use only.



Flow cytometry testing of human ThP-1 cells with EIF4G2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= EIF4G2 antibody.



Immunofluorescent staining of FFPE human EIF4G2 cells with DAP5 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of 1) human MCF7, 2) human HeLa, 3) monkey COS-7, 4) rat heart and 5) mouse heart with EIF4G2 antibody. Expected molecular weight ~97 kDa.

## Description

Eukaryotic translation initiation factor 4 gamma 2 (also called p97, NAT1, and DAP-5) is a protein that in humans is encoded by the EIF4G2 gene. Translation initiation is mediated by specific recognition of the cap structure by eukaryotic translation initiation factor 4F (eIF4F), which is a cap binding protein complex that consists of three subunits: eIF4A, eIF4E and eIF4G. The protein encoded by this gene shares similarity with the C-terminal region of eIF4G that contains the binding sites for eIF4A and eIF3; eIF4G, in addition, contains a binding site for eIF4E at the N-terminus. Unlike eIF4G, which supports cap-dependent and independent translation, this gene product functions as a general repressor of translation by forming translationally inactive complexes. In vitro and in vivo studies indicate that translation of this mRNA initiates exclusively at a non-AUG (GUG) codon. Alternatively spliced transcript variants encoding different isoforms of this gene have been described.

## Application Notes

Optimal dilution of the EIF4G2 antibody should be determined by the researcher.

## Immunogen

E. coli-derived recombinant human protein (amino acids R23-Q889) was used as the immunogen for the EIF4G2 antibody.

## Storage

After reconstitution, the EIF4G2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.