

# EIF4G2/p97 Rabbit mAb

Catalog No.: A22355 **Recombinant**

## Basic Information

### Observed MW

102kDa

### Calculated MW

102kDa

### Category

Primary antibody

### Applications

WB,IHC-P,ELISA

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

ARC52822

## Background

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.

## Recommended Dilutions

**WB** 1:3000 - 1:18000

**IHC-P** 1:100 - 1:500

**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

### Gene ID

1982

### Swiss Prot

P78344

### Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

### Synonyms

P97; AAG1; DAP5; NAT1; EIF4G2/p97

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

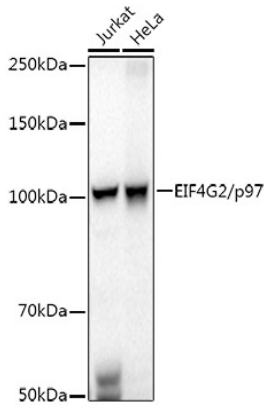
Affinity purification

### Storage

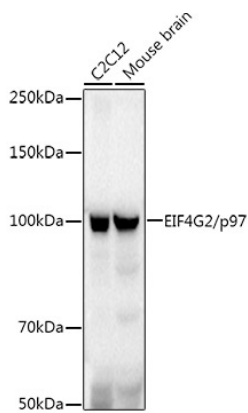
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

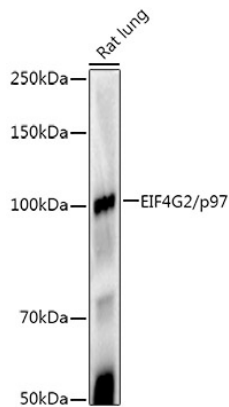
## Validation Data



Western blot analysis of various lysates using EIF4G2/p97 Rabbit mAb (A22355) at 1:3000 dilution.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 10s.



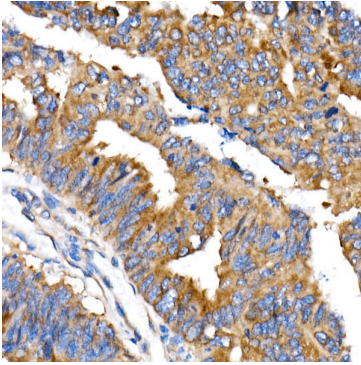
Western blot analysis of various lysates using EIF4G2/p97 Rabbit mAb (A22355) at 1:3000 dilution.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 30s.



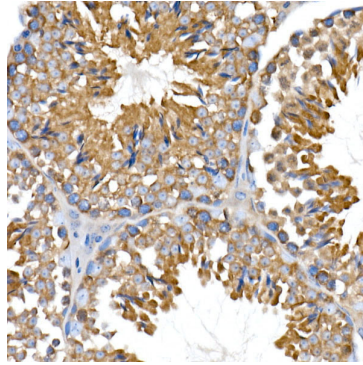
Western blot analysis of lysates from Rat lung, using EIF4G2/p97 Rabbit mAb (A22355) at 1:3000 dilution.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 90s.

## Validation Data

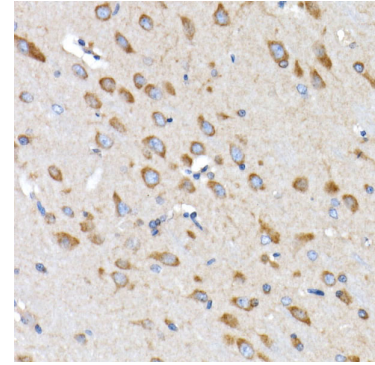
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Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma using EIF4G2/p97 Rabbit mAb (A22355) at dilution of 1:500 (40x lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse testis using EIF4G2/p97 Rabbit mAb (A22355) at dilution of 1:500 (40x lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat brain using EIF4G2/p97 Rabbit mAb (A22355) at dilution of 1:500 (40x lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.