

# EIF4G2/p97 Rabbit mAb

Catalog No.: A21193 **Recombinant**

## Basic Information

### Observed MW

97kDa

### Calculated MW

102kDa

### Category

Primary antibody

### Applications

ELISA, WB, IHC-P, IP

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

ARC52820

## 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** 1:2000 - 1:6000

**IHC-P** 1:500 - 1:1000

**IP** 0.5µg-4µg antibody for  
200µg-600µg extracts of  
whole cells

## Immunogen Information

### Gene ID

1982

### Swiss Prot

P78344

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 320-490 of human EIF4G2/p97 (NP\_001409.3).

### Synonyms

P97; AAG1; DAP5; NAT1; EIF4G2/p97

## Contact

☎ | 400-999-6126

✉ | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

🌐 | [www.abclonal.com.cn](http://www.abclonal.com.cn)

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

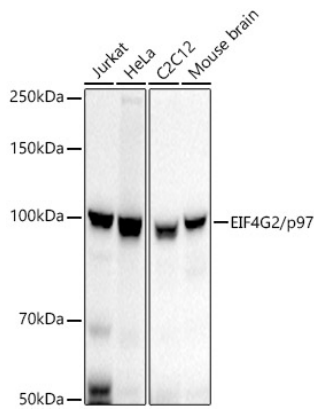
Affinity purification

### Storage

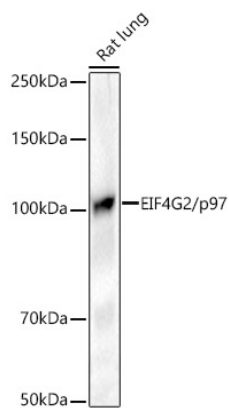
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 0.05% BSA, 50% glycerol, pH7.3.

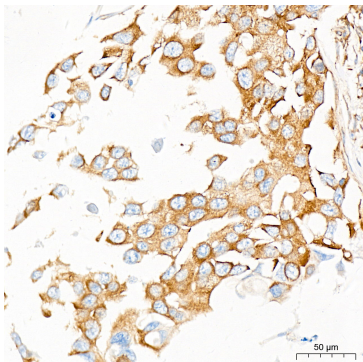
## Validation Data



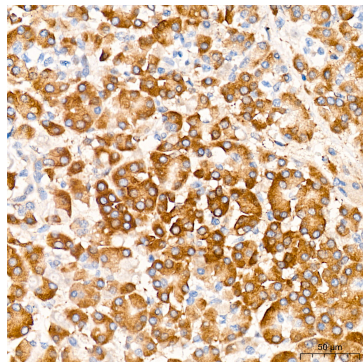
Western blot analysis of various lysates, using EIF4G2/p97 Rabbit mAb (A21193) at 1:5000 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 30s.



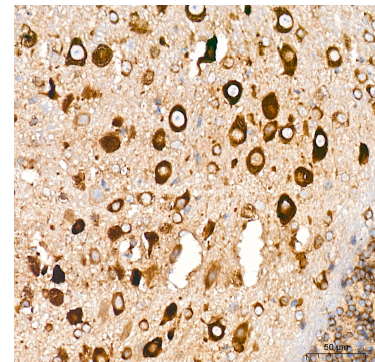
Western blot analysis of lysates from Rat lung, using EIF4G2/p97 Rabbit mAb (A21193) at 1:5000 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 90s.



Immunohistochemistry analysis of EIF4G2/p97 in paraffin-embedded human breast cancer tissue using EIF4G2/p97 Rabbit mAb (A21193) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



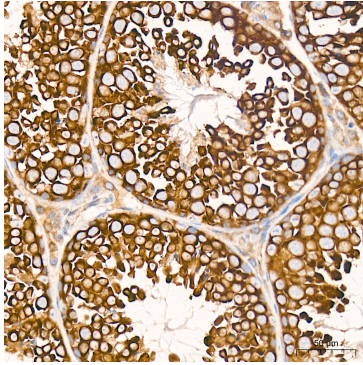
Immunohistochemistry analysis of EIF4G2/p97 in paraffin-embedded human pancreas tissue using EIF4G2/p97 Rabbit mAb (A21193) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



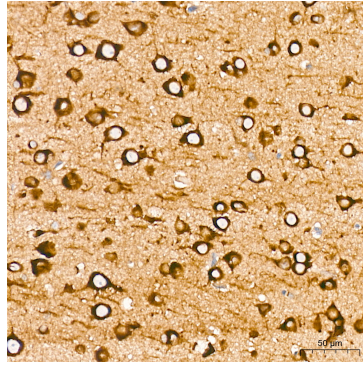
Immunohistochemistry analysis of EIF4G2/p97 in paraffin-embedded mouse brain tissue using EIF4G2/p97 Rabbit mAb (A21193) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

## Validation Data

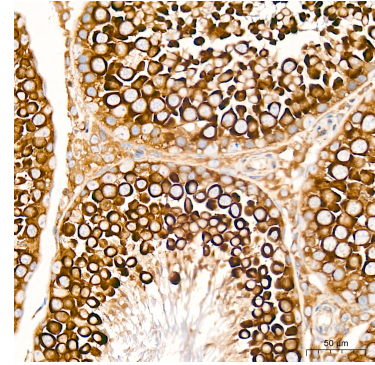
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Immunohistochemistry analysis of EIF4G2/p97 in paraffin-embedded mouse testis tissue using EIF4G2/p97 Rabbit mAb (A21193) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of EIF4G2/p97 in paraffin-embedded rat brain tissue using EIF4G2/p97 Rabbit mAb (A21193) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of EIF4G2/p97 in paraffin-embedded rat testis tissue using EIF4G2/p97 Rabbit mAb (A21193) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.