

## Rabbit anti-Human eIF4G Polyclonal Antibody | anti-eIF4G antibody

eIF4G (Ab-1232) Antibody

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                           |
|-----------|--------|------------|--------------------------------------------------------|
| AAA301656 | Rabbit | Human      | Immunofluorescence, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

eIF4G; Polyclonal Antibody; eIF4G (Ab-1232) Antibody; anti-eIF4G antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                               |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                        |
| Reactivity                                      | Human                                                                                                                                                                         |
| Clonality                                       | Polyclonal                                                                                                                                                                    |
| Specificity                                     | The antibody detects endogenous level of total eIF4G protein.                                                                                                                 |
| Purity/Purification                             | Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide. |
| Form/Format                                     | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                  |
| Concentration                                   | 1.0 mg/ml (varies by lot)                                                                                                                                                     |
| Sequence Length                                 | 1404                                                                                                                                                                          |
| Applicable Applications for anti-eIF4G antibody | IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)                                                                                                        |
| Immunogen Type                                  | Peptide-KLH                                                                                                                                                                   |
| Immunogen Description                           | Peptide sequence around aa.1230~1234 (P-V-S-P-L) derived from Human eIF4G.                                                                                                    |
| Target Name                                     | eIF4G                                                                                                                                                                         |
| Preparation and Storage                         | Store at -20 degree C for long term preservation (recommended). Store at 4 degree C for short term use.                                                                       |

### IMAGES



#### IF (Immunofluorescence)

Immunofluorescence staining of methanol-fixed HeLa cells using eIF4G(Ab-1232) Antibody.



#### IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue using eIF4G(Ab-1232) Antibody (left) or the same antibody preincubated with blocking peptide(right).



#### WB (Western Blot)

Western blot analysis of extracts from HepG2 and HT29 cells using eIF4G(Ab-1232) Antibody.

ADDITIONAL INFORMATION

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|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-eIF4G antibody | eIF4F is a multi-subunit complex, the composition of which varies with external and internal environmental conditions. It is composed of at least EIF4A, EIF4E and EIF4G1/EIF4G3. Interacts with eIF3, mutually exclusive with EIF4A1 or EIFA2, EIF4E and through its N-terminus with PAPBC1. Interacts through its C-terminus with the serine/threonine kinases MKNK1, and with MKNK2. Appears to act as a scaffold protein, holding these enzymes in place to phosphorylate EIF4E. Non-phosphorylated EIF4EBP1 competes with EIF4G1/EIF4G3 to interact with EIF4E; insulin stimulated MAP-kinase (MAPK1 and MAPK3) phosphorylation of EIF4EBP1 causes dissociation of the complex allowing EIF4G1/EIF4G3 to bind and consequent initiation of translation. EIF4G1/EIF4G3 interacts with PABPC1 to bring about circularization of the mRNA. Rapamycin can attenuate insulin stimulation mediated by FKBP. Interacts with EIF4E3. Interacts with MIF4GD. Interacts with rotavirus A NSP3; in this interaction, NSP3 takes the place of PABPC1 thereby inducing shutoff of host protein synthesis |
| Product Categories/Family for anti-eIF4G antibody   | Total protein Ab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                        |
|----------------------------------|----------------------------------------------------------------------------------------|
| NCBI GI #                        | 302699239                                                                              |
| NCBI GeneID                      | 1981                                                                                   |
| NCBI Accession #                 | NP_004944.3                                                                            |
| NCBI GenBank Nucleotide #        | NM_004953.4                                                                            |
| UniProt Accession #              | Q04637; O43177; O95066; Q5HYG0; Q6ZN21; Q8N102; D3DNT2; D3DNT4; D3DNT5; E9PFM1; G5E9S1 |
| Molecular Weight                 | 176,237 Da                                                                             |
| NCBI Official Full Name          | eukaryotic translation initiation factor 4 gamma 1 isoform 4                           |
| NCBI Official Synonym Full Names | eukaryotic translation initiation factor 4 gamma, 1                                    |
| NCBI Official Symbol             | EIF4G1                                                                                 |
| NCBI Official Synonym Symbols    | P220; EIF4F; EIF4G; EIF4GI; PARK18; EIF-4G1                                            |
| NCBI Protein Information         | eukaryotic translation initiation factor 4 gamma 1                                     |
| UniProt Protein Name             | Eukaryotic translation initiation factor 4 gamma 1                                     |
| UniProt Gene Name                | EIF4G1                                                                                 |
| UniProt Synonym Gene Names       | EIF4F; EIF4G; EIF4GI; eIF-4-gamma 1; eIF-4G 1; eIF-4G1                                 |
| UniProt Entry Name               | IF4G1_HUMAN                                                                            |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/polyclonal/eif4g-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/301656>