# Human eIF4G1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF4018

## DESCRIPTION

| | |
|---|---|
| **Species Reactivity** | Human |
| **Specificity** | Detects human eIF4G1 in Western blots. |
| **Source** | Polyclonal Goat IgG |
| **Purification** | Antigen Affinity-purified |
| **Immunogen** | *E. coli*-derived recombinant human eIF4G1<br>Leu1401-Asn1599<br>Accession # Q04637 |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.<br>*Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS. |

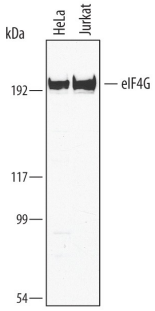
## APPLICATIONS

**Please Note:** *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

| | Recommended Concentration | Sample |
|---|---|---|
| **Western Blot** | 1 µg/mL | See Below |

## DATA

**Western Blot**




**Detection of Human eIF4G by Western Blot.** Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line and Jurkat human acute T cell leukemia cell line. PVDF membrane was probed with 1 µg/mL of Human eIF4G Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4018) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for eIF4G at approximately 220 kDa (as indicated). This experiment was conducted using Immunoblot Buffer Group 1.

## PREPARATION AND STORAGE

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| **Reconstitution** | Reconstitute at 0.2 mg/mL in sterile PBS. |
| **Shipping** | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.<br>*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| **Stability & Storage** | **Use a manual defrost freezer and avoid repeated freeze-thaw cycles.**<br>● 12 months from date of receipt, -20 to -70 °C as supplied.<br>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.<br>● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

## BACKGROUND

eIF4G1 (eukaryotic translation Initiation Factor 4 Gamma 1) is an important member of the translation initiation mechanism. It serves as a scaffold for other initiation factors needed for the recruitment of mRNA to the ribosome, including eIF4E, eIF4A, eIF3, and PABP (poly (A)-binding protein). The eIF4E/eIF4G interaction binds to the 5' m7GTP mRNA cap, while the PABP/eIF4G interaction binds to the poly (A) tail of mRNA. eIF4A is an ATP-dependent RNA helicase. These interactions link the process of poly (A) binding, mRNA cap recognition, and unwinding of secondary structure. In addition when eIF4G is cleaved by a viral protease the majority of host cell mediated translation is diverted to an IRES (internal ribosomal entry site) mediated initiation of translation.



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