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# 35-1311: Polyclonal Antibody to eIF4G (phospho-Ser1231)

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|---|---|
| **Clonality :** | Polyclonal |
| **Application :** | WB,IHC |
| **Reactivity :** | Human |
| **Gene :** | EIF4G1 |
| **Gene ID :** | 1981 |
| **Uniprot ID :** | Q04637 |
| **Format :** | Purified |
| **Isotype :** | Rabbit IgG |
| **Immunogen Information :** | Peptide sequence around phosphorylation site of serine 1231 (P-V-S(p)-P-L) derived from Human eIF4G. |

## Description

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 FKBPs. 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 De Gregorio, E. et al. (1998) RNA 4, 828-836. Ohlmann, T. et al. (1996) EMBO J. 15, 1371-1382. Borman, A.M. and Kean, K.M. (1997) Virology 237, 129-136. Gradi, A. et al. (1998) Mol Cell Biol 18, 334-42.

## Product Info

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| **Amount :** | 50 µl / 100 µl |
| **Content :** | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| **Storage condition :** | Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles. |

## Application Note

Predicted MW: 220kd, Western blotting: 1:500~1:1000, Immunohistochemistry: 1:50~1:100

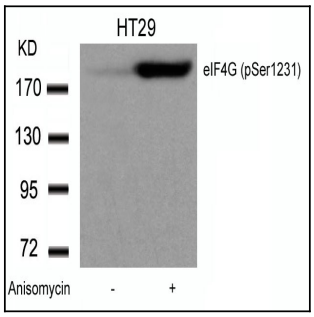


Figure 1: Western blot analysis of extracts from HT29 cells untreated or treated with Anisomycin using eIF4G (phospho-Ser1231) Antibody 35-1311 .

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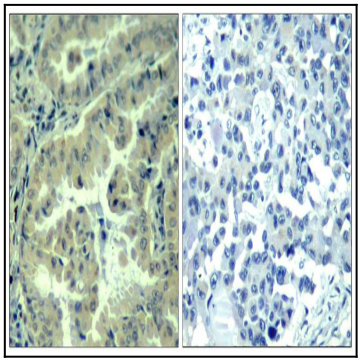

Figure 2: Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue using eIF4G (phospho-Ser1231) Antibody 35-1311 (left) or the same antibody preincubated with blocking peptide(right).