# eIF4G(phospho-Ser1232) Antibody

Catalog No: #11514

Package Size: #11514-1 50ul #11514-2 100ul #11514-4 25ul

## Overview

| | |
|---|---|
| Product Name | eIF4G(phospho-Ser1232) Antibody |
| Host Species | Rabbit |
| Clonality | Polyclonal |
| Applications | WB IHC |
| Species Reactivity | Hu |
| Immunogen Type | Peptide-KLH |
| Target Name | eIF4G |
| Modification | Phospho-Ser1232 |

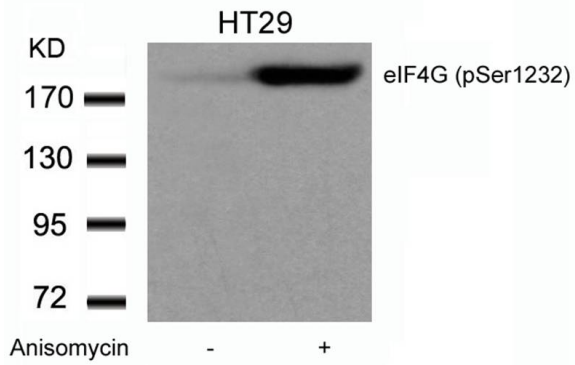
## Application Details

Predicted MW: 220kd

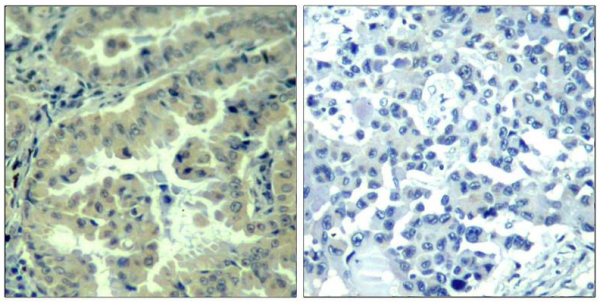
Western blotting: 1:500~1:1000

Immunohistochemistry: 1:50~1:100

## Images




Western blot analysis of extracts from HT29 cells untreated or treated with Anisomycin using eIF4G(phospho-Ser1232) Antibody #11514.



Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue using eIF4G(Phospho-Ser1232) Antibody #11514(left) or the same antibody preincubated with blocking peptide(right).

## Descriptions

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|---|---|
| Immunogen | Peptide sequence around phosphorylation site of serine 1232 (P-V-S(p)-P-L) derived from Human eIF4G. |
| Specificity | The antibody detects endogenous level of eIF4G only when phosphorylated at serine 1232. |
| Purifiction | Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide. |
| Formulation | 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 | Store at -20°C for long term preservation (recommended). Store at 4°C for short term use. |
| Accession NO. | Swiss-Prot: Q04637NCBI Protein: NP_004944.2 |

## Related Information

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

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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.