## eIF4G (Ab-1231) Antibody

Catalog No: #21514

Package Size: #21514-1 50ul #21514-2 100ul



Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

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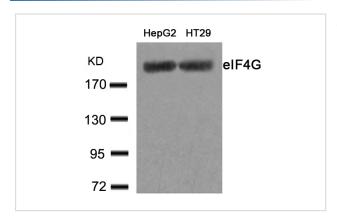
Product Name	eIF4G (Ab-1231) Antibody	
Host Species	Rabbit	
Clonality	Polyclonal	
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were	
	purified by affinity-chromatography using epitope-specific peptide.	
Applications	WB IHC IF	
Species Reactivity	Hu	
Specificity	The antibody detects endogenous level of total eIF4G protein.	
Immunogen Type	Peptide-KLH	
Immunogen Description	Peptide sequence around aa.1229~1233 (P-V-S-P-L) derived from Human elF4G.	
Target Name	elF4G	
Accession No.	Swiss-Prot: Q04637NCBI Protein: NP_004944.2	
Concentration	1.0mg/ml	
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.	

## **Application Details**

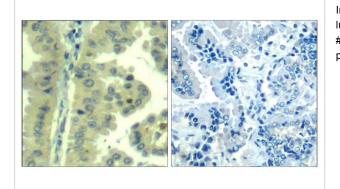
Predicted MW: 220kd

Western blotting: 1:500~1:1000
Immunohistochemistry: 1:50~1:100
Immunofluorescence: 1:100~1:200

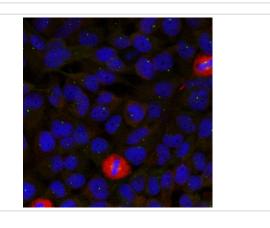
## **Images**



Western blot analysis of extracts from HepG2 and HT29 cells using eIF4G (Ab-1231) Antibody #21514.



Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue using eIF4G (Ab-1231) Antibody #21514(left) or the same antibody preincubated with blocking peptide(right).



Immunofluorescence staining of methanol-fixed Hela cells using eIF4G (Ab-1231) Antibody #21514.

## Background

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.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.