

eIF4G(Ab-1232) Antibody

Catalog No: #21514



Package Size: #21514-1 50ul #21514-2 100ul #21514-4 25ul

Overview

Product Name	eIF4G(Ab-1232) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Applications	WB IHC IF
Species Reactivity	Human
Immunogen Type	Peptide-KLH
Target Name	eIF4G

Application Details

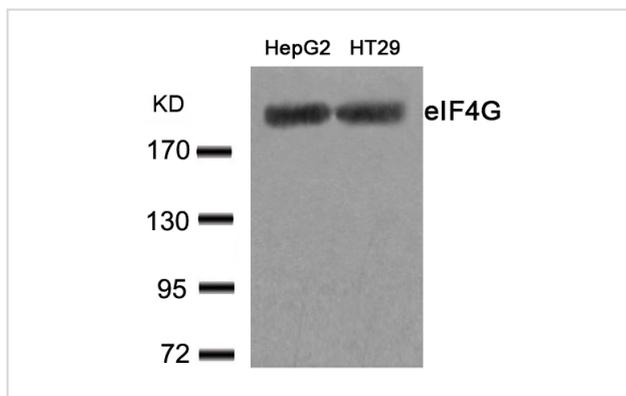
Predicted MW: 220kd

Western blotting: 1:500~1:1000

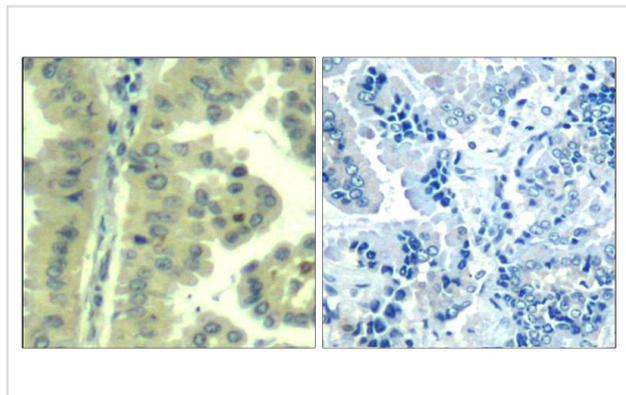
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

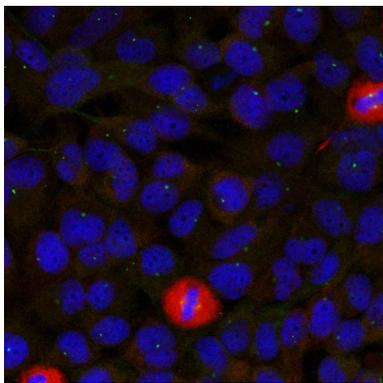
Images



Western blot analysis of extracts from HepG2 and HT29 cells using eIF4G(Ab-1232) Antibody #21514.



Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue using eIF4G(Ab-1232) Antibody #21514(left) or the same antibody preincubated with blocking peptide(right).



Immunofluorescence staining of methanol-fixed HeLa cells using eIF4G(Ab-1232) Antibody #21514.

Descriptions

Immunogen	Peptide sequence around aa.1230~1234 (P-V-S-P-L) derived from Human eIF4G.
Specificity	The antibody detects endogenous level of total eIF4G protein.
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), 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 EIF4A2, EIF4E and through its N-terminus with PABPC1. 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

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.