

Datasheet for ABIN7138417
anti-EIF4G1 antibody (pSer1232)[Go to Product page](#)

2 Images

Overview

Quantity:	100 µL
Target:	EIF4G1
Binding Specificity:	pSer1232
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EIF4G1 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Western Blotting (WB), ELISA

Product Details

Immunogen:	Peptide sequence around phosphorylation site of serine 1232 (P-V-S(p)-P-L) derived from Human eIF4G.
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	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 chromatography using

Target Details

Target:	EIF4G1
Alternative Name:	EIF4G1 (EIF4G1 Products)

Target Details

Background:	<p>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 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</p> <p>De Gregorio, E. et al. (1998) RNA 4, 828-836.</p> <p>Ohlmann, T. et al. (1996) EMBO J. 15, 1371-1382.</p> <p>Borman, A.M. and Kean, K.M. (1997) Virology 237, 129-136.</p> <p>Gradi, A. et al. (1998) Mol Cell Biol 18, 334-42.</p> <p>Aliases: DKFZp686A1451 antibody, eIF 4 gamma 1 antibody, eIF 4G 1 antibody, eIF 4G1 antibody, eIF-4-gamma 1 antibody, eIF-4G 1 antibody, eIF-4G1 antibody, EIF4 gamma antibody, EIF4F antibody, EIF4G antibody, EIF4G1 antibody, EIF4GI antibody, Eukaryotic translation initiation factor 4 gamma 1 antibody, IF4G1_HUMAN antibody, p220 antibody</p>
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UniProt:	Q04637
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Application Details

Application Notes:	WB:1:500-1:1000, IHC:1:50-1:100,
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
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Buffer:	Supplied at 1.0 mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
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Preservative:	Sodium azide
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Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
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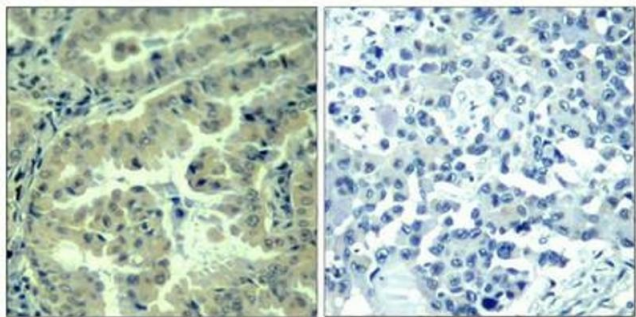
Handling

should be handled by trained staff only.

Storage: -20 °C,-80 °C

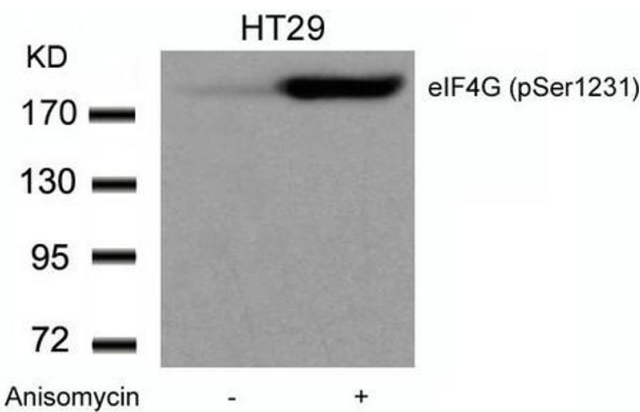
Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Immunohistochemistry

Image 1. Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue using eIF4G(Phospho-Ser1232) Antibody(left) or the same antibody preincubated with blocking peptide(right).



Western Blotting

Image 2. Western blot analysis of extracts from HT29 cells untreated or treated with Anisomycin using eIF4G (phospho-Ser1231) Antibody.