

Rabbit eIF4G Polyclonal Antibody | anti-eIF4G antibody

Phospho-eIF4G (Ser1147) Antibody

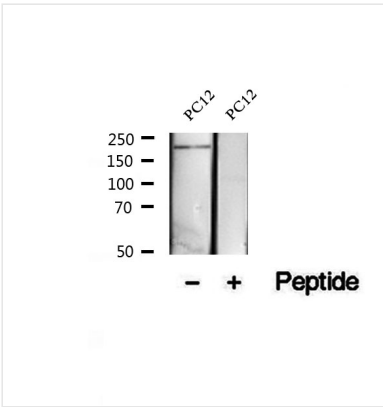
CATALOG # AAA321325	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

eIF4G; Polyclonal Antibody; Phospho-eIF4G (Ser1147) Antibody; DKFZp686A1451; eIF 4 gamma 1; eIF 4G 1; eIF 4G1; eIF-4-gamma 1; eIF-4G 1; eIF-4G1; EIF4 gamma; EIF4F; EIF4G; EIF4G1; EIF4GI; Eukaryotic translation initiation factor 4 gamma 1; IF4G1_HUMAN; p220; anti-eIF4G antibody

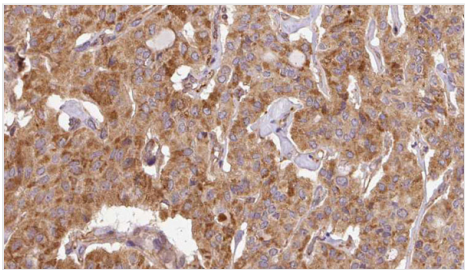
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-eIF4G (Ser1147) antibody detects endogenous levels of eIF4G.
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1404
Applicable Applications for anti-eIF4G antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human eIF4G around the phosphorylation site of Ser1147.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (92%), Dog (100%)
Conjugation	Unconjugated
Epitope	Phospho Ser1147
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)

Western blot analysis of extracts of PC12 cells, using Phospho-eIF4G (Ser1147) Antibody.



IHC (Immunohistochemistry)

AAA321325 at 1/100 staining Human thyroid cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-eIF4G antibody	Function: Component of the protein complex eIF4F, which is involved in the recognition of the mRNA cap, ATP-dependent unwinding of 5'-terminal secondary structure and recruitment of mRNA to the ribosome. Subunit Structure: 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 (cap-binding) 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 CIRBP and MIF4GD. Interacts with rotavirus A NSP3; in this interaction, NSP3 takes the place of PABPC1 thereby inducing shutoff of host protein synthesis. Interacts with RBM4. Interacts with HNRNPD/AUF1; the interaction requires RNA. Interacts with human adenovirus 5 100K protein; this interaction promotes translational shunt in presence of polysomes containing viral tripartite leader mRNAs (PubMed:15314025). Post-translational Modifications: Phosphorylated at multiple sites in vivo. Phosphorylation at Ser-1185 by PRKCA induces binding to MKNK1. Following infection by certain enteroviruses, rhinoviruses and aphthoviruses, EIF4G1 is cleaved by the viral protease 2A, or the leader protease in the case of aphthoviruses. This shuts down the capped cellular mRNA transcription. Similarity: Belongs to the eukaryotic initiation factor 4G family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	302699239
NCBI GeneID	1981
NCBI Accession #	NP_004944.3
NCBI GenBank Nucleotide #	NM_004953.4
UniProt Accession #	Q04637; O43177; O95066; Q5HYG0; Q6ZN21; Q8N102; D3DNT2; D3DNT4; D3DNT5; E9PFM1; G5E9S1
Molecular Weight	Observed: 220 kDa Predicted: 176 kDa
NCBI Official Full Name	eukaryotic translation initiation factor 4 gamma 1 isoform 4
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 4 gamma 1
NCBI Official Symbol	EIF4G1
NCBI Official Synonym Symbols	P220; EIF4F; EIF4G; EIF4GI; PARK18; EIF-4G1

NCBI Protein Information	eukaryotic translation initiation factor 4 gamma 1
UniProt Protein Name	Eukaryotic translation initiation factor 4 gamma 1
UniProt Gene Name	EIF4G1
UniProt Synonym Gene Names	EIF4F; EIF4G; EIF4GI; eIF-4-gamma 1; eIF-4G 1; eIF-4G1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/eif4g-antibody-immunohistochemistry-western-blot-elisa/321325>