

DATASHEET

EIF4G1 (Phospho-S1148) Rabbit Polyclonal Antibody

CAT. NO. APA09235

KEY FEATURES

Target	EIF4G1 (Phospho-S1148)	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat, Rabbit, Pig	Clonality	Polyclonal
Applications	WB, IHC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

BACKGROUND

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 . Exists in two complexes, either with EIF1 or with EIF4E (mutually exclusive) . Together with EIF1, is required for leaky scanning, in particular for avoiding cap-proximal start codon . Together with EIF4E, antagonizes the scanning promoted by EIF1-EIF4G1 and locates the start codon (through a TISU element) without scanning . As a member of the eIF4F complex, required for endoplasmic reticulum stress-induced ATF4 mRNA translation .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:100 - 1:200

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit polyclonal antibody to EIF4G1 (Phospho-S1148)
Specificity	Recognizes endogenous levels of EIF4G1 protein only when phosphorylated at S1148.
Antibody Type	Primary antibody
Immunogen	KLH-conjugated synthetic phosphopeptide corresponding to residues surrounding S1148 of human EIF4G1 protein. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 175 kD; Observed: 175 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	EIF4F; EIF4G; EIF4G1; Eukaryotic translation initiation factor 4 gamma 1; eIF-4-gamma 1; eIF-4G 1; eIF-4G1; p220
Gene Symbol	EIF4G1
Entrez Gene	1981(Human); 208643(Mouse)
SwissProt	Q04637(Human); Q6NZJ6(Mouse)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

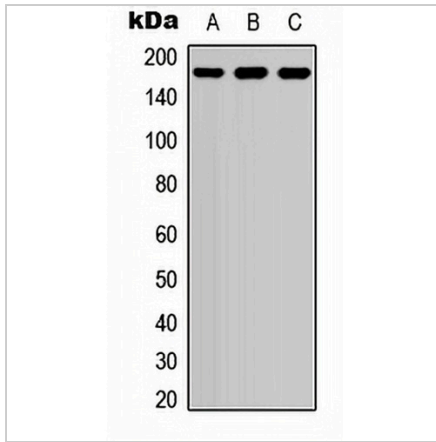
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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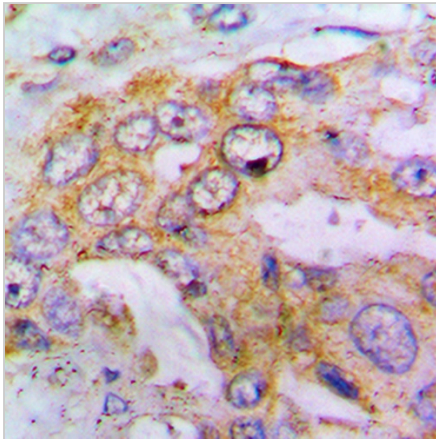
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Western blot analysis of EIF4G1 (Phospho-S1148) expression in THP1 (A), Raw264.7 (B), PC12 (C) whole cell lysates. (Predicted band size: 175 kD; Observed band size: 175 kD)



Immunohistochemical analysis of EIF4G1 (Phospho-S1148) staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.