DATASHEET

# EIF4G1 Rabbit Polyclonal Antibody

CAT. NO. APA09876

## KEY FEATURES

| | | | |
|---|---|---|---|
| Target | EIF4G1 | Source / Host | Rabbit |
| Reactivity | Human, Mouse, Rat, Rabbit, Pig | Clonality | Polyclonal |
| Applications | WB, IHC, IF/ICC | 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 |
| IF/ICC | 1:100 - 1:500 |

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

## PRODUCT OVERVIEW

| | |
|---|---|
| Description | Rabbit polyclonal antibody to EIF4G1 |
| Specificity | Recognizes endogenous levels of EIF4G1 protein. |
| Antibody Type | Primary antibody |
| Immunogen | KLH-conjugated synthetic peptide encompassing a sequence within the center region of human EIF4G1. 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; EIF4GI; 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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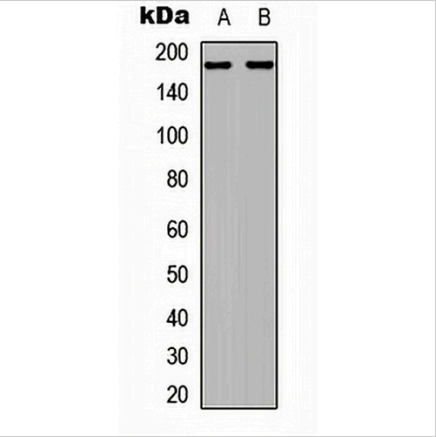
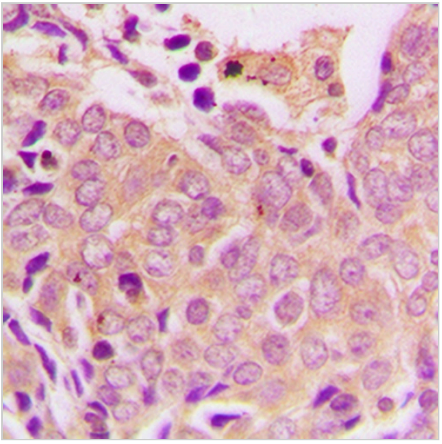
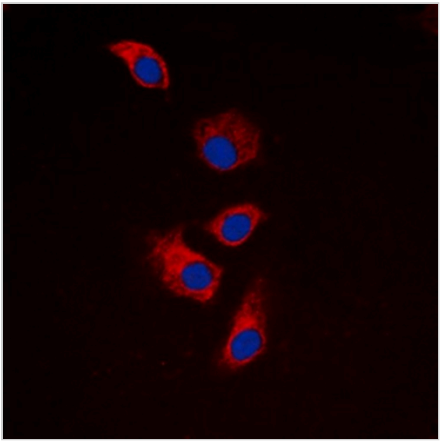
## DATA




Western blot analysis of EIF4G1 expression in HEK293T (A), HeLa (B) whole cell lysates. (Predicted band size: 175 kD; Observed band size: 175 kD)



Immunohistochemical analysis of EIF4G1 staining in human breast 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.



Immunofluorescent analysis of EIF4G1 staining in HEK293T cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

## 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.