

EIF4G1 polyclonal antibody

Catalog # PAB18240 Size 100 ug

Applications



Peptide

Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections)

Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue using EIF4G1 polyclonal antibody (Cat # PAB18240). Peptide "+" means "peptide blocking".



Immunofluorescence

Immunofluorescence analysis of HeLa cells, using EIF4G1 polyclonal antibody (Cat # PAB18240). Peptide "+" means "peptide blocking".

| Specification | |
|---------------------|--|
| Product Description | Rabbit polyclonal antibody raised against synthetic peptide of EIF4G1. |
| Immunogen | A synthetic peptide corresponding to human EIF4G1. |
| Host | Rabbit |
| Reactivity | Human, Mouse, Rat |
| Specificity | This antibody is specific to EIF4G1. |
| Form | Liquid |
| Purification | Affinity purification |



Product Information

| Concentration | 1 mg/mL |
|---------------------|--|
| Recommend Usage | Immunohistochemistry (1:50-1:100) Immunofluorescence (1:500-1:1000) ELISA (1:5000) The optimal working dilution should be determined by the end user. |
| Storage Buffer | In PBS, 150mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide) |
| Storage Instruction | Store at -20°C. Aliquot to avoid repeated freezing and thawing. |
| Note | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

Applications

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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Immunofluorescence

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Enzyme-linked Immunoabsorbent Assay

Gene Info — EIF4G1

| Entrez GenelD | <u>1981</u> |
|--------------------|---|
| Protein Accession# | <u>Q04637</u> |
| Gene Name | EIF4G1 |
| Gene Alias | DKFZp686A1451, EIF4F, EIF4G, p220 |
| Gene Description | eukaryotic translation initiation factor 4 gamma, 1 |
| Omim ID | <u>600495</u> |
| Gene Ontology | <u>Hyperlink</u> |



Product Information

Gene Summary

The protein encoded by this gene is a 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. Alternative splicing results in five transcript variants en coding four distinct isoforms. [provided by RefSeq

Other Designations

EIF4-gamma

Publication Reference

 Protection of cap-dependent protein synthesis in vivo and in vitro with an elF4G-1 variant highly resistant to cleavage by Coxsackievirus 2A protease.

Zhao X, Lamphear BJ, Xiong D, Knowlton K, Rhoads RE.

The Journal of Biological Chemistry 2003 Feb; 278(7):4449.

Application: WB-Tr, Human, HeLa cells

• <u>The histone 3'-terminal stem-loop-binding protein enhances translation through a functional and physical</u> interaction with eukaryotic initiation factor 4G (eIF4G) and eIF3.

Ling J, Morley SJ, Pain VM, Marzluff WF, Gallie DR. Molecular and Cellular Biology 2002 Nov; 22(22):7853.

Application: IP-WB, Human, 293 cells

 <u>elF4G functionally differs from elFiso4G in promoting internal initiation, cap-independent translation, and</u> <u>translation of structured mRNAs.</u>

Gallie DR, Browning KS.

The Journal of Biological Chemistry 2001 Oct; 276(40):36951.

Application: WB, Plant, Wheat germ lysates