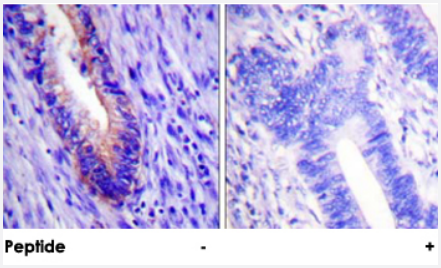
EIF4G1 polyclonal antibody

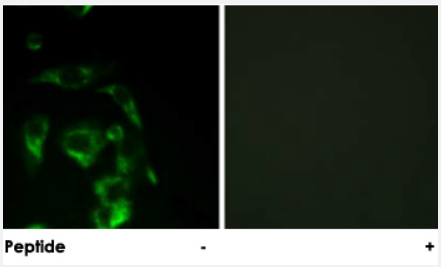
Catalog # PAB18240 Size 100 ug

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded 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

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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)

  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".

- Enzyme-linked Immunoabsorbent Assay

Gene Info — EIF4G1

Entrez GeneID	1981
Protein Accession#	Q04637
Gene Name	EIF4G1
Gene Alias	DKFZp686A1451, EIF4F, EIF4G, p220
Gene Description	eukaryotic translation initiation factor 4 gamma, 1
Omim ID	600495
Gene Ontology	Hyperlink

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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 eIF4G-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

- The histone 3'-terminal stem-loop-binding protein enhances translation through a functional and physical 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

- eIF4G functionally differs from eIFiso4G in promoting internal initiation, cap-independent translation, and translation of structured mRNAs.

  Gallie DR, Browning KS.

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

  Application: WB, Plant, Wheat germ lysates

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